<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Argentina</td>
<td>95 65 160</td>
<td>145 70 215 22</td>
<td></td>
<td>100 60 160 0 160</td>
<td>180 100 280 25</td>
<td></td>
</tr>
<tr>
<td>Australia</td>
<td>446 100 546 85 631</td>
<td>1 200 238 1 438 203</td>
<td></td>
<td>479 152 631 21 652</td>
<td>1 228 354 1 582 225</td>
<td></td>
</tr>
<tr>
<td>Austria</td>
<td>186 58 244 6 250</td>
<td>325 114 439 35</td>
<td></td>
<td>190 58 248 4 252</td>
<td>330 115 445 36</td>
<td></td>
</tr>
<tr>
<td>Belgium</td>
<td>114 54 169 11 169</td>
<td>138 98 236 16</td>
<td></td>
<td>126 54 180 12 180</td>
<td>150 87 237 18</td>
<td></td>
</tr>
<tr>
<td>Canada</td>
<td>219 200 419 0 419</td>
<td>329 300 629 63</td>
<td></td>
<td>219 200 419 0 419</td>
<td>329 300 629 63</td>
<td></td>
</tr>
<tr>
<td>China</td>
<td>400 2 283 2 683 0 2 683</td>
<td>544 6 500 7 044 600</td>
<td></td>
<td>400 2 283 2 683 0 2 683</td>
<td>544 6 500 7 044 600</td>
<td></td>
</tr>
<tr>
<td>Czech Republic</td>
<td>4 583 46 4 629 316 4 945</td>
<td>6 887 110 6 797 270</td>
<td></td>
<td>4 684 50 4 734 292 5 026</td>
<td>6 100 100 6 200 250</td>
<td></td>
</tr>
<tr>
<td>France</td>
<td>401 36 437 44 481</td>
<td>676 87 763 25</td>
<td></td>
<td>424 39 463 33 496</td>
<td>746 87 833 29</td>
<td></td>
</tr>
<tr>
<td>Germany</td>
<td>10 492 7 574 18 066 1 477 19 543</td>
<td>19 921 21 635 41 556 4 265</td>
<td></td>
<td>10 900 8 300 19 200 900 20 100</td>
<td>20 500 23 200 43 700 4 950</td>
<td></td>
</tr>
<tr>
<td>Japan</td>
<td>60 60 120 0 120</td>
<td>130 143 273 30</td>
<td></td>
<td>60 60 120 0 120</td>
<td>130 143 273 30</td>
<td></td>
</tr>
<tr>
<td>New Zealand</td>
<td>371 71 442 30 442</td>
<td>620 140 760 72</td>
<td></td>
<td>371 71 442 89 531</td>
<td>600 122 722 65</td>
<td></td>
</tr>
<tr>
<td>Poland</td>
<td>622 847 1 468 108 1 576</td>
<td>1 091 1 902 2 993 248</td>
<td></td>
<td>659 918 1 576 0 1 576</td>
<td>830 1 700 2 530 205</td>
<td></td>
</tr>
<tr>
<td>Romania</td>
<td>73 192 256 5 270</td>
<td>97 140 205 20</td>
<td></td>
<td>73 190 265 5 270</td>
<td>95 140 205 20</td>
<td></td>
</tr>
<tr>
<td>Russia</td>
<td>220 200 420 50 470</td>
<td>250 250 600 40</td>
<td></td>
<td>220 200 420 50 470</td>
<td>250 250 500 40</td>
<td></td>
</tr>
<tr>
<td>Serbia</td>
<td>34 33 67 12 79</td>
<td>58 76 134 11</td>
<td></td>
<td>34 33 67 12 79</td>
<td>58 76 134 11</td>
<td></td>
</tr>
<tr>
<td>Slovakia</td>
<td>138 0 137 0 138</td>
<td>104 0 104 5</td>
<td></td>
<td>138 0 138 0 138</td>
<td>152 0 152 7</td>
<td></td>
</tr>
<tr>
<td>Slovenia</td>
<td>1 393 21 1 414 176 1 590</td>
<td>2 731 36 2 767 150</td>
<td></td>
<td>1 526 21 1 547 120 1 667</td>
<td>2 864 36 2 900 155</td>
<td></td>
</tr>
<tr>
<td>South Africa</td>
<td>34 390 424 0 424</td>
<td>46 658 710 85</td>
<td></td>
<td>73 354 427 0 427</td>
<td>77 677 754 75</td>
<td></td>
</tr>
<tr>
<td>Spain</td>
<td>0 537 537 0 537</td>
<td>0 662 662 76</td>
<td></td>
<td>0 543 543 6 543</td>
<td>0 1 000 1 000 110</td>
<td></td>
</tr>
<tr>
<td>Ukraine</td>
<td>309 60 369 0 369</td>
<td>400 80 480 30</td>
<td></td>
<td>309 60 369 0 369</td>
<td>400 80 480 30</td>
<td></td>
</tr>
<tr>
<td>UK-England</td>
<td>967 967 0 967</td>
<td>1 780 0 1 780 130</td>
<td></td>
<td>972 0 972 5 972</td>
<td>1 500 0 1 500 120</td>
<td></td>
</tr>
<tr>
<td>USA</td>
<td>17 242 5 292 22 534 1 101 22 534</td>
<td>34 374 13 817 48 191 5 166</td>
<td></td>
<td>16 800 6 340 23 140 606 23 140</td>
<td>30 240 15 216 45 456 5 000</td>
<td></td>
</tr>
<tr>
<td>IHGC</td>
<td>38 399 18 119 56 357 3 421 58 797</td>
<td>71 614 47 056 118 676 11 562</td>
<td></td>
<td>38 757 19 988 58 744 2 155 60 270</td>
<td>67 273 50 283 117 556 12 064</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Difference 2018-2017</th>
<th>358</th>
<th>1 869</th>
<th>2 387</th>
<th>-1 266</th>
<th>1 473</th>
<th>-4 341</th>
<th>3 227</th>
<th>-1 120</th>
<th>-502</th>
</tr>
</thead>
<tbody>
<tr>
<td>Difference 2018-2013</td>
<td>17 640</td>
<td>912</td>
<td>14 651</td>
<td>468</td>
<td>14 576</td>
<td>29 459</td>
<td>5 830</td>
<td>35 289</td>
<td>4 044</td>
</tr>
<tr>
<td>Difference 2018-2008</td>
<td>11 729</td>
<td>-7 375</td>
<td>4 352</td>
<td>-3 232</td>
<td>5 878</td>
<td>19 793</td>
<td>-15 576</td>
<td>4 217</td>
<td>1 412</td>
</tr>
</tbody>
</table>

* Since no country updates were available, figures from Prague in 2018 were used.
* Acreage without new hop areas
* 2017 yield estimated by EC, 2018 no country updates
blue color - correction discussed at the meeting
Figure 1: Comparison of IHGC crops 2004 - 2018* (acreage, production, alpha acids production)
# International Hop Growers’ Convention

**IHGC-Economic Committee: May 2018 - Paris, France**

## Argentina

### Hop Area (Ha = Hectares)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>95</td>
<td>100</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>65</td>
<td>60</td>
<td>-5</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>160</td>
<td>160</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

### New Hop Area (Ha)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### TOTAL Hop Area (Ha)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Production (MT=Metric Tons)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>145</td>
<td>180</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>70</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>215</td>
<td>280</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Yield (MT/Ha)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>1.6</td>
<td>2.0</td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>1.4</td>
<td>1.7</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Main Varieties (Ha = Hectares)

<table>
<thead>
<tr>
<th>Variety</th>
<th>Year N-1 Total Acreage</th>
<th>Year N Total Acreage</th>
<th>Difference</th>
<th>Year N-1 Alpha %</th>
<th>Year N Alpha %</th>
<th>Difference N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>64</td>
<td>58</td>
<td>11-17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>1</td>
<td>2</td>
<td>12-15</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Note: All data is provided for illustrative purposes and may not reflect actual figures.*
### Comments on Hop Production and Market Situation

A detailed analysis of the international hop growers' convention, highlighting the production and market situation for Argentina, including data on hop yields, crop years, and trends in hop prices.

#### Hop Production and Market Situation

<table>
<thead>
<tr>
<th>Country, Date:</th>
<th>Member Organization(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Argentina</td>
<td></td>
</tr>
</tbody>
</table>

#### Hop Prices

<table>
<thead>
<tr>
<th>Hop Prices</th>
<th>Year (N-2)</th>
<th>Year (N-1)</th>
<th>Year (N)</th>
<th>% Diff.</th>
<th>Kind of Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spot Prices</td>
<td>2016</td>
<td>2017</td>
<td>2018</td>
<td>N vs. (N-1)</td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contract Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVERAGE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Unsold Hops

<table>
<thead>
<tr>
<th>Unsold Hops (MT): Crop Year (N-1)</th>
<th>2017</th>
<th>Aroma</th>
<th>Alpha</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Hop Production</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Sold Production</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>= Unsold Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% unsold Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Contract Situation

<table>
<thead>
<tr>
<th>Contract</th>
<th>Year N</th>
<th>Year N+1</th>
<th>Year N+2</th>
<th>Year N+3</th>
<th>Year N+4</th>
<th>Year N+5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric tons</td>
<td>2018</td>
<td>2019</td>
<td>2020</td>
<td>2021</td>
<td>2022</td>
<td>2023</td>
</tr>
<tr>
<td>% Crop / Year N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Alpha Production

<table>
<thead>
<tr>
<th>Metric Tons</th>
<th>Year N-1</th>
<th>2017</th>
<th>Year N</th>
<th>2018</th>
<th>Difference</th>
<th>N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>Metric Tons</td>
<td></td>
<td>Av. Contents</td>
<td>%</td>
<td>0</td>
<td>%</td>
</tr>
<tr>
<td>Alpha</td>
<td>Metric Tons</td>
<td></td>
<td>Av. Contents</td>
<td>%</td>
<td>0</td>
<td>%</td>
</tr>
<tr>
<td>Total</td>
<td>Metric Tons</td>
<td>25,0</td>
<td>Av. Contents</td>
<td>%</td>
<td>0</td>
<td>%</td>
</tr>
</tbody>
</table>
International Hop Growers’ Convention
IHGC-Economic Committee: May 2018 - Paris, France

Country: **Australia**

<table>
<thead>
<tr>
<th>Hop Area (Ha = Hectares)</th>
<th>Year N-1 2017</th>
<th>Year N 2018</th>
<th>Difference N - (N-1)</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td>152</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>631</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>New Hop Area (Ha)</th>
<th>Year N-1 2017</th>
<th>Year N 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TOTAL Hop Area (Ha)</th>
<th>Year N-1 2017</th>
<th>Year N 2018</th>
<th>Difference N - (N-1)</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>631</td>
<td></td>
<td>652</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Production (MT= Metric Tons)</th>
<th>Year N-1 2017</th>
<th>Year N 2018</th>
<th>Difference N - (N-1)</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>1 200</td>
<td>1 228</td>
<td>28</td>
<td>2.3</td>
</tr>
<tr>
<td>Alpha</td>
<td>238</td>
<td>354</td>
<td>116</td>
<td>48.7</td>
</tr>
<tr>
<td>Total</td>
<td>1 438</td>
<td>1 582</td>
<td>144</td>
<td>10.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Yield (MT/Ha)</th>
<th>Year N-1 2017</th>
<th>Year N 2018</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td>2.28</td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td>2.43</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Main Varieties (Ha = Hectares)</th>
<th>Year N-1 Total Acreage</th>
<th>Year N Total Acreage</th>
<th>Difference</th>
<th>Year N-1 Alpha %</th>
<th>Year N Alpha %</th>
<th>Difference N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cascade</td>
<td>23</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enigma</td>
<td>35</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Galaxy</td>
<td>274</td>
<td>294</td>
<td>20</td>
<td>15.4</td>
<td>14.6</td>
<td>-0.8</td>
</tr>
<tr>
<td>Vic secret</td>
<td>51</td>
<td>75</td>
<td>24</td>
<td>18.4</td>
<td>18.1</td>
<td>-0.3</td>
</tr>
<tr>
<td>Pride of Ringwood</td>
<td>60</td>
<td>60</td>
<td>0</td>
<td>9.5</td>
<td>8.5</td>
<td>-1.0</td>
</tr>
<tr>
<td>Super Pride</td>
<td>92</td>
<td>92</td>
<td>0</td>
<td>14.4</td>
<td>12.0</td>
<td>-2.4</td>
</tr>
<tr>
<td>Topaz</td>
<td>22</td>
<td>23</td>
<td>1</td>
<td>17.2</td>
<td>17.5</td>
<td>0.3</td>
</tr>
<tr>
<td>Elia</td>
<td>50</td>
<td>50</td>
<td>0</td>
<td>15.3</td>
<td>14.4</td>
<td>-0.9</td>
</tr>
</tbody>
</table>
## International Hop Growers’ Convention

**IHGC-Economic Committee: May 2018 - Paris, France**

### Australia

#### Alpha Prod.

<table>
<thead>
<tr>
<th>Metric Tons</th>
<th>2017</th>
<th>Year N</th>
<th>2018</th>
<th>Difference</th>
<th>N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
</tr>
<tr>
<td>Aroma</td>
<td></td>
<td>%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>203,0</td>
<td>225,0</td>
<td>22,0</td>
<td>10,8</td>
<td></td>
</tr>
</tbody>
</table>

#### Contract

<table>
<thead>
<tr>
<th>Situation</th>
<th>Year N</th>
<th>Year N+1</th>
<th>Year N+2</th>
<th>Year N+3</th>
<th>Year N+4</th>
<th>Year N+5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric tons</td>
<td>2018</td>
<td>2019</td>
<td>2020</td>
<td>2021</td>
<td>2022</td>
<td>2023</td>
</tr>
<tr>
<td>% Crop / Year N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Unsold Hops (MT) : Crop Year (N-1)

<table>
<thead>
<tr>
<th>Total Hop Production</th>
<th>Aroma</th>
<th>Alpha</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Sold Production</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>= Unsold Hops</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% unsold Hops</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Hop Prices

<table>
<thead>
<tr>
<th>Euro / Kg</th>
<th>Year (N-2) 2016</th>
<th>Year (N-1) 2017</th>
<th>Year (N) 2018</th>
<th>% Diff. N vs. (N-1)</th>
<th>Kind of Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spot Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contract Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVERAGE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COMMENTS ON HOP PRODUCTION AND MARKET SITUATION**

Country, Date:  
Member Organization(s):
### Hop Area (Ha = Hectares)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>186</td>
<td>190</td>
<td>4</td>
<td>2.1</td>
</tr>
<tr>
<td>Alpha</td>
<td>58</td>
<td>58</td>
<td>0</td>
<td>0.0</td>
</tr>
<tr>
<td>Total</td>
<td>244</td>
<td>248</td>
<td>4</td>
<td>1.6</td>
</tr>
</tbody>
</table>

### New Hop Area (Ha)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>Alpha</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>6</td>
<td>4</td>
</tr>
</tbody>
</table>

### TOTAL Hop Area (Ha)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>192</td>
<td>194</td>
<td>2</td>
<td>1.0</td>
</tr>
<tr>
<td>Alpha</td>
<td>58</td>
<td>58</td>
<td>0</td>
<td>0.0</td>
</tr>
<tr>
<td>Total</td>
<td>250</td>
<td>252</td>
<td>2</td>
<td>0.8</td>
</tr>
</tbody>
</table>

### Production MT=Metric Tons

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>325</td>
<td>330</td>
<td>5</td>
<td>1.5</td>
</tr>
<tr>
<td>Alpha</td>
<td>114</td>
<td>115</td>
<td>1</td>
<td>0.8</td>
</tr>
<tr>
<td>Total</td>
<td>439</td>
<td>445</td>
<td>6</td>
<td>1.3</td>
</tr>
</tbody>
</table>

### Yield MT/Ha

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>1.7</td>
<td>1.7</td>
<td>0.0</td>
</tr>
<tr>
<td>Alpha</td>
<td>2.0</td>
<td>2.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Total</td>
<td>1.8</td>
<td>1.8</td>
<td>0.0</td>
</tr>
</tbody>
</table>

### Main Varieties (Ha = Hectares)

<table>
<thead>
<tr>
<th>Varieties</th>
<th>Year N-1 Total Acreage</th>
<th>Year N Total Acreage</th>
<th>Difference</th>
<th>Year N-1 Alpha %</th>
<th>Year N Alpha %</th>
<th>Difference N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Celeja</td>
<td>55</td>
<td>55</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perle</td>
<td>41</td>
<td>41</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aurora</td>
<td>24</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Malling</td>
<td>19</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spalter Select</td>
<td>20</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tradition</td>
<td>15</td>
<td>16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnum / Taurus</td>
<td>58</td>
<td>58</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Alpha Prod.

<table>
<thead>
<tr>
<th>Metric Tons</th>
<th>Year N-1</th>
<th>2017</th>
<th>Year N</th>
<th>2018</th>
<th>Difference</th>
<th>N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>19,5</td>
<td>6,0</td>
<td>20,0</td>
<td>6,0</td>
<td>0,5</td>
<td>0,0</td>
</tr>
<tr>
<td>Alpha</td>
<td>15,5</td>
<td>13,6</td>
<td>16,1</td>
<td>14,0</td>
<td>0,6</td>
<td>0,4</td>
</tr>
<tr>
<td>Total</td>
<td>35,0</td>
<td>8,0</td>
<td>36,1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Contract

<table>
<thead>
<tr>
<th>Metric tons</th>
<th>Year N</th>
<th>Year N+1</th>
<th>Year N+2</th>
<th>Year N+3</th>
<th>Year N+4</th>
<th>Year N+5</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Crop / Year N</td>
<td>2018</td>
<td>2019</td>
<td>2020</td>
<td>2021</td>
<td>2022</td>
<td>2023</td>
</tr>
</tbody>
</table>

### Unsold Hops (MT) : Crop Year (N-1)

<table>
<thead>
<tr>
<th>Total Hop Production</th>
<th>2017</th>
<th>Aroma</th>
<th>Alpha</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Sold Production</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>= Unsold Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% unsold Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Hop Prices

<table>
<thead>
<tr>
<th>Kind of Price</th>
<th>Year (N-2)</th>
<th>Year (N-1)</th>
<th>Year (N)</th>
<th>% Diff. N vs. (N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spot Prices</td>
<td>2016</td>
<td>2017</td>
<td>2018</td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contract Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVERAGE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Comments on Hop Production and Market Situation

Country, Date: Austria, 08.05.2018
Member Organization(s): Hermann Bayer
### Hop Area

<table>
<thead>
<tr>
<th></th>
<th>Year N-1</th>
<th>Year N 2018</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>114.3</td>
<td>125.8</td>
<td>11.5</td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>54.3</td>
<td>54.3</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>168.6</td>
<td>180.1</td>
<td>11.5</td>
<td></td>
</tr>
</tbody>
</table>

### New Hop Area

<table>
<thead>
<tr>
<th></th>
<th>Year N-1</th>
<th>Year N 2018</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>10.5</td>
<td>11.5</td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>10.5</td>
<td>11.5</td>
<td></td>
</tr>
</tbody>
</table>

### TOTAL Hop Area

<table>
<thead>
<tr>
<th></th>
<th>Year N-1</th>
<th>Year N 2018</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>114.3</td>
<td>125.8</td>
<td>11.5</td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>54.3</td>
<td>54.3</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>168.6</td>
<td>180.1</td>
<td>11.5</td>
<td></td>
</tr>
</tbody>
</table>

### Production

<table>
<thead>
<tr>
<th></th>
<th>Year N-1</th>
<th>Year N 2018</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>138</td>
<td>150</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>98</td>
<td>87</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>236</td>
<td>237</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

### Yield

<table>
<thead>
<tr>
<th></th>
<th>Year N-1</th>
<th>Year N 2018</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>1.2</td>
<td>1.2</td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>1.8</td>
<td>1.6</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Main Varieties

<table>
<thead>
<tr>
<th></th>
<th>Year N-1</th>
<th>Year N 2018</th>
<th>Difference</th>
<th>Year N-1</th>
<th>Year N</th>
<th>Difference N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Golding</td>
<td>40</td>
<td>52.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Challenger</td>
<td>19.6</td>
<td>17.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cascade</td>
<td>7.8</td>
<td>7.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnum</td>
<td>17.8</td>
<td>18.4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Target</td>
<td>28.1</td>
<td>28.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Prod.</td>
<td>Year N-1</td>
<td>2017</td>
<td>Year N</td>
<td>2018</td>
<td>Difference</td>
<td>N-(N-1)</td>
</tr>
<tr>
<td>------------</td>
<td>---------</td>
<td>------</td>
<td>--------</td>
<td>------</td>
<td>------------</td>
<td>--------</td>
</tr>
<tr>
<td>Metric Tons</td>
<td>Metric Tons Av. Contents</td>
<td>Metric Tons Av. Contents</td>
<td>Metric Tons Av. Contents</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma</td>
<td>7.5</td>
<td>5.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>10.5</td>
<td>12.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>18.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contract</th>
<th>Year N</th>
<th>Year N+1</th>
<th>Year N+2</th>
<th>Year N+3</th>
<th>Year N+4</th>
<th>Year N+5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Situation</td>
<td>2018</td>
<td>2019</td>
<td>2020</td>
<td>2021</td>
<td>2022</td>
<td>2023</td>
</tr>
<tr>
<td>Metric tons</td>
<td>% Crop / Year N</td>
<td>60%</td>
<td>40%</td>
<td>40%</td>
<td>40%</td>
<td>40%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unsold Hops (MT) : Crop Year (N-1)</th>
<th>2017</th>
<th>Aroma</th>
<th>Alpha</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Hop Production</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Sold Production</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>= Unsold Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% unsold Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hop Prices Euro / Kg</th>
<th>Year (N-2)</th>
<th>Year (N-1)</th>
<th>Year (N)</th>
<th>% Diff. N vs. (N-1)</th>
<th>Kind of Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spot Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contract Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVERAGE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COMMENTS ON HOP PRODUCTION AND MARKET SITUATION**
# International Hop Growers’ Convention

IHGC-Economic Committee: May 2018 - Paris, France

## Czech Republic

<table>
<thead>
<tr>
<th>Hop Area (Ha = Hectares)</th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>4583</td>
<td>4684</td>
<td>101</td>
<td>2.2</td>
</tr>
<tr>
<td>Alpha</td>
<td>46</td>
<td>50</td>
<td>4</td>
<td>8.7</td>
</tr>
<tr>
<td>Total</td>
<td>4629</td>
<td>4734</td>
<td>105</td>
<td>2.3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>New Hop Area (Ha)</th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>312</td>
<td>290</td>
</tr>
<tr>
<td>Alpha</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>316</td>
<td>292</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TOTAL Hop Area (Ha)</th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>4895</td>
<td>4974</td>
<td>79</td>
<td>1.6</td>
</tr>
<tr>
<td>Alpha</td>
<td>50</td>
<td>52</td>
<td>2</td>
<td>4.0</td>
</tr>
<tr>
<td>Total</td>
<td>4945</td>
<td>5026</td>
<td>81</td>
<td>1.6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Production MT=Metric Tons</th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>6 687</td>
<td>6 100</td>
<td>-587</td>
<td>-8.8</td>
</tr>
<tr>
<td>Alpha</td>
<td>110</td>
<td>100</td>
<td>-10</td>
<td>-9.1</td>
</tr>
<tr>
<td>Total</td>
<td>6 797</td>
<td>6 200</td>
<td>-597</td>
<td>-8.8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Yield MT/Ha</th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>1.37</td>
<td>1.23</td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>2.20</td>
<td>1.92</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>1.37</td>
<td>1.23</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Main Varieties (Ha = Hectares)</th>
<th>Year N-1 Total Acreage</th>
<th>Year N Total Acreage</th>
<th>Difference</th>
<th>Year N-1 Alpha %</th>
<th>Year N Alpha %</th>
<th>Difference N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAAZ</td>
<td>4317</td>
<td>4352</td>
<td>35</td>
<td>3.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sládek</td>
<td>295</td>
<td>322</td>
<td>27</td>
<td>6.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Premiant</td>
<td>165</td>
<td>170</td>
<td>5</td>
<td>7.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saaz Late</td>
<td>44</td>
<td>46</td>
<td>2</td>
<td>3.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kazbek</td>
<td>34</td>
<td>34</td>
<td>0</td>
<td>5.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saaz Special</td>
<td>26</td>
<td>34</td>
<td>8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agnus</td>
<td>42</td>
<td>42</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### International Hop Growers’ Convention

**IHGC-Economic Committee: May 2018 - Paris, France**

**Country:**

**Czech Republic**

---

#### Alpha Prod.

<table>
<thead>
<tr>
<th>Metric Tons</th>
<th>Year N-1</th>
<th>2017</th>
<th>Year N</th>
<th>2018</th>
<th>Difference</th>
<th>N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>270,0</td>
<td></td>
<td>250,0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Contract

<table>
<thead>
<tr>
<th>Situation</th>
<th>Year N</th>
<th>Year N+1</th>
<th>Year N+2</th>
<th>Year N+3</th>
<th>Year N+4</th>
<th>Year N+5</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2018</td>
<td>2019</td>
<td>2020</td>
<td>2021</td>
<td>2022</td>
<td>2023</td>
</tr>
<tr>
<td>Metric tons</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% Crop / Year N</td>
<td>100</td>
<td>100</td>
<td>97</td>
<td>80</td>
<td>75</td>
<td>60</td>
</tr>
</tbody>
</table>

#### Unsold Hops (MT) : Crop Year (N-1)

<table>
<thead>
<tr>
<th>Year</th>
<th>Aroma</th>
<th>Alpha</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Hop Prices Euro / Kg

<table>
<thead>
<tr>
<th>Hop Prices</th>
<th>Year (N-2)</th>
<th>Year (N-1)</th>
<th>Year (N)</th>
<th>% Diff. N vs. (N-1)</th>
<th>Kind of Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spot Prices</td>
<td>2016</td>
<td>2017</td>
<td>2018</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contract Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td>7,3</td>
<td>7,8</td>
<td></td>
<td>farmer price</td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td>5</td>
<td>5,2</td>
<td></td>
<td>farmer price</td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVERAGE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**COMMENTS ON HOP PRODUCTION AND MARKET SITUATION**

---

**Country, Date:**

11.05.2018

**Member Organization(s):**

Hop Growers Union of the Czech Rep.
## International Hop Growers’ Convention

**IHGC-Economic Committee: May 2018 - Paris, France**

### Hop Area

<table>
<thead>
<tr>
<th>Hop Area (Ha = Hectares)</th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>401</td>
<td>424</td>
<td>23</td>
<td>105.8%</td>
</tr>
<tr>
<td>Alpha</td>
<td>36</td>
<td>39</td>
<td>3</td>
<td>107.8%</td>
</tr>
<tr>
<td>Total</td>
<td>437</td>
<td>463</td>
<td>26</td>
<td>106.6%</td>
</tr>
</tbody>
</table>

### New Hop Area (Ha)

<table>
<thead>
<tr>
<th>Hop Area</th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>41</td>
<td>29</td>
</tr>
<tr>
<td>Alpha</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td>44</td>
<td>33</td>
</tr>
</tbody>
</table>

### TOTAL Hop Area (Ha)

<table>
<thead>
<tr>
<th>Hop Area</th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>442</td>
<td>454</td>
<td>12</td>
<td>102.7%</td>
</tr>
<tr>
<td>Alpha</td>
<td>39</td>
<td>42</td>
<td>3</td>
<td>108.8%</td>
</tr>
<tr>
<td>Total</td>
<td>481</td>
<td>496</td>
<td>15</td>
<td>103.2%</td>
</tr>
</tbody>
</table>

### Production MT=Metric Tons

<table>
<thead>
<tr>
<th>Hop Area</th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>676</td>
<td>746</td>
<td>70</td>
<td>110.4%</td>
</tr>
<tr>
<td>Alpha</td>
<td>87</td>
<td>87</td>
<td>0</td>
<td>100.0%</td>
</tr>
<tr>
<td>Total</td>
<td>763</td>
<td>833</td>
<td>70</td>
<td>109.2%</td>
</tr>
</tbody>
</table>

### Yield MT/Ha

<table>
<thead>
<tr>
<th>Hop Area</th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>1.6</td>
<td>1.6</td>
<td>1.0</td>
</tr>
<tr>
<td>Alpha</td>
<td>2.4</td>
<td>2.1</td>
<td>0.9</td>
</tr>
<tr>
<td>Total</td>
<td>1.8</td>
<td>1.7</td>
<td>1.0</td>
</tr>
</tbody>
</table>

### Main Varieties (Ha = Hectares)

<table>
<thead>
<tr>
<th>Hop Area</th>
<th>Year N-1 Total Acreage</th>
<th>Year N Total Acreage</th>
<th>Difference</th>
<th>Year N-1 Alpha %</th>
<th>Year N Alpha %</th>
<th>Difference N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strisselspalt</td>
<td>181</td>
<td>175.5</td>
<td>-5.5</td>
<td>2.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aramis</td>
<td>53</td>
<td>58.1</td>
<td>5.1</td>
<td>5.80</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tradition</td>
<td>28.3</td>
<td>22.2</td>
<td>-6.1</td>
<td>4.80</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Triskel</td>
<td>39</td>
<td>47.9</td>
<td>8.9</td>
<td>3.50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuggle</td>
<td>48.5</td>
<td>54.9</td>
<td>6.4</td>
<td>4.60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Golding</td>
<td>45</td>
<td>46.8</td>
<td>1.8</td>
<td>3.50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Challenger</td>
<td>6</td>
<td>6</td>
<td>0</td>
<td>6.30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Barbe-Rouge</td>
<td>10.6</td>
<td>12.1</td>
<td>1.5</td>
<td>6.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mistral</td>
<td>7</td>
<td>8.9</td>
<td>1.9</td>
<td>5.50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cascade</td>
<td>4.5</td>
<td>2.7</td>
<td>-1.8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Columbus</td>
<td>4.3</td>
<td>5.4</td>
<td>1.1</td>
<td>10.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brewers Gold</td>
<td>16</td>
<td>15.7</td>
<td>-0.3</td>
<td>5.50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nugget</td>
<td>7.1</td>
<td>9.2</td>
<td>2.1</td>
<td>10.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnum</td>
<td>4.7</td>
<td>5.8</td>
<td>1.1</td>
<td>12.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Target</td>
<td>5.7</td>
<td>5.65</td>
<td>-0.05</td>
<td>10.50</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### International Hop Growers’ Convention

**IHGC-Economic Committee: May 2018 - Paris, France**

<table>
<thead>
<tr>
<th>Metric Tons</th>
<th>Year N-1</th>
<th>2017</th>
<th>Year N</th>
<th>2018</th>
<th>Difference</th>
<th>N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>17,2</td>
<td>3,2</td>
<td>22,4</td>
<td>3,0</td>
<td>5,2</td>
<td>1,3</td>
</tr>
<tr>
<td>Alpha</td>
<td>7,8</td>
<td>7,4</td>
<td>6,1</td>
<td>7,0</td>
<td>-1,7</td>
<td>0,8</td>
</tr>
<tr>
<td>Total</td>
<td>25,0</td>
<td>3,9</td>
<td>28,5</td>
<td>3,4</td>
<td>3,5</td>
<td>1,1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contract</th>
<th>Year N</th>
<th>Year N+1</th>
<th>Year N+2</th>
<th>Year N+3</th>
<th>Year N+4</th>
<th>Year N+5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Situation</td>
<td>2018</td>
<td>2019</td>
<td>2020</td>
<td>2021</td>
<td>2022</td>
<td>2023</td>
</tr>
<tr>
<td>Metric tons</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% Crop / Year</td>
<td>90</td>
<td>80</td>
<td>80</td>
<td>60</td>
<td>30</td>
<td>30</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unsold Hops (MT) : Crop Year (N-1)</th>
<th>2017</th>
<th>Aroma</th>
<th>Alpha</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Hop Production</td>
<td>676</td>
<td>87</td>
<td>763</td>
<td></td>
</tr>
<tr>
<td>- Sold Production</td>
<td>666</td>
<td>87</td>
<td>753</td>
<td></td>
</tr>
<tr>
<td>= Unsold Hops</td>
<td>10</td>
<td>0</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>% unsold Hops</td>
<td>1,48</td>
<td>0,00</td>
<td>1,31</td>
<td></td>
</tr>
</tbody>
</table>

### Hop Prices Euro / Kg

<table>
<thead>
<tr>
<th>Year (N-2)</th>
<th>Year (N-1)</th>
<th>Year (N)</th>
<th>% Diff. N vs. (N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spot Prices</td>
<td>Aroma Hops</td>
<td>Alpha Hops</td>
<td>Average Price</td>
</tr>
<tr>
<td>Contract Prices</td>
<td>Aroma Hops</td>
<td>Alpha Hops</td>
<td>Average Price</td>
</tr>
<tr>
<td>Average Prices</td>
<td>Aroma Hops</td>
<td>Alpha Hops</td>
<td>AVERAGE</td>
</tr>
</tbody>
</table>

### COMMENTS ON HOP PRODUCTION AND MARKET SITUATION

Country, Date: May 14, 2018

Member Organization(s): AGPH

Francis Heitz
## International Hop Growers’ Convention

**IHGC-Economic Commission: May 2018 - Paris, France**

Country: **Germany**

<table>
<thead>
<tr>
<th>Hop area (ha)</th>
<th>Year N-1 2017</th>
<th>Year N 2018 estimate</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>10492</td>
<td>10900</td>
<td>408</td>
<td>3.9</td>
</tr>
<tr>
<td>Alpha</td>
<td>7574</td>
<td>8300</td>
<td>726</td>
<td>9.6</td>
</tr>
<tr>
<td>Total</td>
<td>18066</td>
<td>19200</td>
<td>1134</td>
<td>6.3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>New Hop Area (ha)</th>
<th>Year N-1 2017</th>
<th>Year N 2018 estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>583</td>
<td>200</td>
</tr>
<tr>
<td>Alpha</td>
<td>894</td>
<td>700</td>
</tr>
<tr>
<td>Total</td>
<td>1477</td>
<td>900</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TOTAL Hop area (ha)</th>
<th>Year N-1 2017</th>
<th>Year N 2018 estimate</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>11075</td>
<td>11100</td>
<td>25</td>
<td>0.2</td>
</tr>
<tr>
<td>Alpha</td>
<td>8468</td>
<td>9000</td>
<td>532</td>
<td>6.3</td>
</tr>
<tr>
<td>Total</td>
<td>19543</td>
<td>20100</td>
<td>557</td>
<td>2.9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Production MT</th>
<th>Year N-1 2017</th>
<th>Year N 2018 estimate</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>19921</td>
<td>20500</td>
<td>579</td>
<td>2.9</td>
</tr>
<tr>
<td>Alpha</td>
<td>21635</td>
<td>23200</td>
<td>1565</td>
<td>7.2</td>
</tr>
<tr>
<td>Total</td>
<td>41556</td>
<td>43700</td>
<td>2144</td>
<td>5.2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Yield MT/HA.</th>
<th>Year N-1 2017</th>
<th>Year N 2018 estimate</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>1.8</td>
<td>1.8</td>
<td>2.7</td>
</tr>
<tr>
<td>Alpha</td>
<td>2.6</td>
<td>2.6</td>
<td>0.9</td>
</tr>
<tr>
<td>Total</td>
<td>2.1</td>
<td>2.2</td>
<td>2.2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Main Varieties (Ha = Hectares)</th>
<th>Year N-1 Total Acreage</th>
<th>Year N Total Acreage</th>
<th>Difference</th>
<th>Year N-1 Alpha %</th>
<th>Year N Alpha %</th>
<th>Difference N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>Perle</td>
<td>2966</td>
<td>3100</td>
<td>134</td>
<td>6.9</td>
<td>7.6</td>
</tr>
<tr>
<td></td>
<td>Hall. Tradition</td>
<td>2704</td>
<td>2700</td>
<td>-4</td>
<td>5.7</td>
<td>6.2</td>
</tr>
<tr>
<td></td>
<td>Hersbrucker</td>
<td>915</td>
<td>910</td>
<td>-5</td>
<td>2.3</td>
<td>2.9</td>
</tr>
<tr>
<td></td>
<td>Hallertauer</td>
<td>723</td>
<td>700</td>
<td>-23</td>
<td>3.5</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Tettnanger</td>
<td>747</td>
<td>750</td>
<td>3</td>
<td>3.6</td>
<td>3.8</td>
</tr>
<tr>
<td></td>
<td>Spalter Select</td>
<td>532</td>
<td>540</td>
<td>8</td>
<td>4.6</td>
<td>4.9</td>
</tr>
<tr>
<td></td>
<td>Saphir</td>
<td>473</td>
<td>490</td>
<td>17</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Mand. Bavaria</td>
<td>356</td>
<td>320</td>
<td>-36</td>
<td>7.3</td>
<td>7.5</td>
</tr>
<tr>
<td></td>
<td>North. Brewer</td>
<td>300</td>
<td>300</td>
<td>0</td>
<td>7.8</td>
<td>9.1</td>
</tr>
<tr>
<td></td>
<td>Amarillo</td>
<td>300</td>
<td>300</td>
<td>0</td>
<td>7.8</td>
<td>9.1</td>
</tr>
<tr>
<td></td>
<td>Spalter</td>
<td>121</td>
<td>125</td>
<td>4</td>
<td>3.2</td>
<td>3.7</td>
</tr>
<tr>
<td>Alpha</td>
<td>Herkules</td>
<td>5797</td>
<td>6500</td>
<td>703</td>
<td>15.5</td>
<td>16.7</td>
</tr>
<tr>
<td></td>
<td>Hall. Magnum</td>
<td>2011</td>
<td>1900</td>
<td>-111</td>
<td>12.6</td>
<td>12.8</td>
</tr>
<tr>
<td></td>
<td>Hall. Taurus</td>
<td>284</td>
<td>260</td>
<td>-24</td>
<td>15.9</td>
<td>16.5</td>
</tr>
<tr>
<td></td>
<td>Nugget</td>
<td>131</td>
<td>130</td>
<td>-1</td>
<td>10.8</td>
<td>11.4</td>
</tr>
<tr>
<td></td>
<td>Polaris</td>
<td>174</td>
<td>200</td>
<td>26</td>
<td>19.6</td>
<td>19.3</td>
</tr>
</tbody>
</table>
### Alpha Prod.

<table>
<thead>
<tr>
<th></th>
<th>Year N-1</th>
<th>2017</th>
<th>Year N</th>
<th>2018</th>
<th>Difference</th>
<th>N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric Tons</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
</tr>
<tr>
<td>Aroma</td>
<td>1092,0</td>
<td>5,5</td>
<td>1150,0</td>
<td>5,6</td>
<td>58,0</td>
<td>0,1</td>
</tr>
<tr>
<td>Alpha</td>
<td>3173,0</td>
<td>14,7</td>
<td>3800,0</td>
<td>16,4</td>
<td>627,0</td>
<td>1,7</td>
</tr>
<tr>
<td>Total</td>
<td>4 265</td>
<td>10,3</td>
<td>4950,0</td>
<td>11,3</td>
<td>685,0</td>
<td>1,1</td>
</tr>
</tbody>
</table>

### Contract

<table>
<thead>
<tr>
<th></th>
<th>Year N</th>
<th>Year N+1</th>
<th>Year N+2</th>
<th>Year N+3</th>
<th>Year N+4</th>
<th>Year N+5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric Tons</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% Crop / Year N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Unsold Hops (MT) : Crop Year (N-1)

<table>
<thead>
<tr>
<th>Total Hop Production</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Sold Production</td>
<td></td>
</tr>
<tr>
<td>= Unsold Hops</td>
<td>0,00</td>
</tr>
<tr>
<td>% unsold Hops</td>
<td>0</td>
</tr>
</tbody>
</table>

### Hop Prices

<table>
<thead>
<tr>
<th>Year (N-2)</th>
<th>Year (N-1)</th>
<th>Year (N)</th>
<th>% Diff. 2017 vs. 2016</th>
<th>Kind of Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Euro / Kg</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spot Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td>6,57</td>
<td>9,16</td>
<td>39,40</td>
<td>Farmer Price</td>
</tr>
<tr>
<td>Alpha Hops</td>
<td>6,59</td>
<td>10,35</td>
<td>57,10</td>
<td>Farmer Price</td>
</tr>
<tr>
<td>Average Price</td>
<td>6,58</td>
<td>9,74</td>
<td>48,00</td>
<td>Farmer Price</td>
</tr>
<tr>
<td>Contract Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td>5,36</td>
<td>5,51</td>
<td>2,80</td>
<td>Farmer Price</td>
</tr>
<tr>
<td>Alpha Hops</td>
<td>4,39</td>
<td>4,36</td>
<td>-0,70</td>
<td>Farmer Price</td>
</tr>
<tr>
<td>Average Price</td>
<td>4,88</td>
<td>4,9</td>
<td>0,40</td>
<td>Farmer Price</td>
</tr>
<tr>
<td>Average Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td>5,6</td>
<td>5,9</td>
<td>5,40</td>
<td>Farmer Price</td>
</tr>
<tr>
<td>Alpha Hops</td>
<td>4,8</td>
<td>5</td>
<td>4,20</td>
<td>Farmer Price</td>
</tr>
<tr>
<td>AVERAGE</td>
<td>5,21</td>
<td>5,4</td>
<td>3,60</td>
<td>Farmer Price</td>
</tr>
</tbody>
</table>

### COMMENTS ON HOP PRODUCTION AND MARKET SITUATION

Country, Date: Verband deutscher Hopfenpflanzer

Germany 27.04.2018 gez. Brunner
### Hop Area (Ha = Hectares)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>120</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### New Hop Area (Ha)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### TOTAL Hop Area (Ha)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>120</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Production (MT=Metric Tons)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>273</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Yield (MT/Ha)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>2,3</td>
<td></td>
</tr>
</tbody>
</table>

### Main Varieties (Ha = Hectares)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 Total Acreage</th>
<th>Year N Total Acreage</th>
<th>Difference</th>
<th>Year N-1 Alpha %</th>
<th>Year N Alpha %</th>
<th>Difference N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Comments on Hop Production and Market Situation

Historical data the next pages...

---

**Country:** Japan

**Member Organization(s):** Sugimura San, Kirin
## Historical data (last 40 years) in Japan

<table>
<thead>
<tr>
<th>Year</th>
<th>Hop Area (Ha)</th>
<th>Production (MT)</th>
<th>Yield (MT/Ha)</th>
<th>Farmers</th>
<th>Hop Area / a Farmer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1978</td>
<td>1234</td>
<td>2167</td>
<td>1,76</td>
<td>3398</td>
<td>0,36</td>
</tr>
<tr>
<td>1979</td>
<td>1181</td>
<td>1816</td>
<td>1,54</td>
<td>3193</td>
<td>0,37</td>
</tr>
<tr>
<td>1980</td>
<td>1161</td>
<td>1809</td>
<td>1,56</td>
<td>2998</td>
<td>0,39</td>
</tr>
<tr>
<td>1981</td>
<td>1129</td>
<td>1285</td>
<td>1,14</td>
<td>2809</td>
<td>0,40</td>
</tr>
<tr>
<td>1982</td>
<td>1108</td>
<td>1401</td>
<td>1,26</td>
<td>2645</td>
<td>0,42</td>
</tr>
<tr>
<td>1983</td>
<td>1099</td>
<td>1750</td>
<td>1,59</td>
<td>2538</td>
<td>0,43</td>
</tr>
<tr>
<td>1984</td>
<td>1068</td>
<td>1898</td>
<td>1,78</td>
<td>2427</td>
<td>0,44</td>
</tr>
<tr>
<td>1985</td>
<td>1049</td>
<td>1884</td>
<td>1,80</td>
<td>2352</td>
<td>0,45</td>
</tr>
<tr>
<td>1986</td>
<td>1009</td>
<td>1978</td>
<td>1,96</td>
<td>2183</td>
<td>0,46</td>
</tr>
<tr>
<td>1987</td>
<td>995</td>
<td>1851</td>
<td>1,86</td>
<td>2110</td>
<td>0,47</td>
</tr>
<tr>
<td>1988</td>
<td>980</td>
<td>1896</td>
<td>1,93</td>
<td>2032</td>
<td>0,48</td>
</tr>
<tr>
<td>1989</td>
<td>933</td>
<td>1940</td>
<td>2,08</td>
<td>1903</td>
<td>0,49</td>
</tr>
<tr>
<td>1990</td>
<td>842</td>
<td>1656</td>
<td>1,97</td>
<td>1678</td>
<td>0,50</td>
</tr>
<tr>
<td>1991</td>
<td>741</td>
<td>1256</td>
<td>1,70</td>
<td>1429</td>
<td>0,52</td>
</tr>
<tr>
<td>1992</td>
<td>660</td>
<td>1270</td>
<td>1,92</td>
<td>1248</td>
<td>0,53</td>
</tr>
<tr>
<td>1993</td>
<td>614</td>
<td>1065</td>
<td>1,73</td>
<td>1136</td>
<td>0,54</td>
</tr>
<tr>
<td>1994</td>
<td>564</td>
<td>1103</td>
<td>1,96</td>
<td>1013</td>
<td>0,56</td>
</tr>
<tr>
<td>1995</td>
<td>520</td>
<td>955</td>
<td>1,84</td>
<td>918</td>
<td>0,57</td>
</tr>
<tr>
<td>1996</td>
<td>433</td>
<td>861</td>
<td>1,99</td>
<td>758</td>
<td>0,57</td>
</tr>
<tr>
<td>1997</td>
<td>398</td>
<td>763</td>
<td>1,92</td>
<td>677</td>
<td>0,59</td>
</tr>
<tr>
<td>1998</td>
<td>359</td>
<td>619</td>
<td>1,72</td>
<td>603</td>
<td>0,60</td>
</tr>
<tr>
<td>1999</td>
<td>341</td>
<td>721</td>
<td>2,11</td>
<td>550</td>
<td>0,62</td>
</tr>
<tr>
<td>2000</td>
<td>329</td>
<td>692</td>
<td>2,10</td>
<td>524</td>
<td>0,63</td>
</tr>
<tr>
<td>2001</td>
<td>313</td>
<td>644</td>
<td>2,06</td>
<td>488</td>
<td>0,64</td>
</tr>
<tr>
<td>2002</td>
<td>294</td>
<td>556</td>
<td>1,89</td>
<td>458</td>
<td>0,64</td>
</tr>
<tr>
<td>2003</td>
<td>287</td>
<td>504</td>
<td>1,76</td>
<td>436</td>
<td>0,66</td>
</tr>
<tr>
<td>2004</td>
<td>274</td>
<td>459</td>
<td>1,68</td>
<td>407</td>
<td>0,67</td>
</tr>
<tr>
<td>2005</td>
<td>244</td>
<td>497</td>
<td>2,04</td>
<td>373</td>
<td>0,65</td>
</tr>
<tr>
<td>2006</td>
<td>235</td>
<td>415</td>
<td>1,77</td>
<td>358</td>
<td>0,66</td>
</tr>
<tr>
<td>2007</td>
<td>214</td>
<td>410</td>
<td>1,92</td>
<td>334</td>
<td>0,64</td>
</tr>
<tr>
<td>2008</td>
<td>205</td>
<td>446</td>
<td>2,18</td>
<td>315</td>
<td>0,65</td>
</tr>
<tr>
<td>2009</td>
<td>200</td>
<td>303</td>
<td>1,52</td>
<td>308</td>
<td>0,65</td>
</tr>
<tr>
<td>2010</td>
<td>192</td>
<td>362</td>
<td>1,89</td>
<td>293</td>
<td>0,66</td>
</tr>
<tr>
<td>2011</td>
<td>181</td>
<td>342</td>
<td>1,89</td>
<td>277</td>
<td>0,65</td>
</tr>
<tr>
<td>2012</td>
<td>168</td>
<td>345</td>
<td>2,05</td>
<td>258</td>
<td>0,65</td>
</tr>
<tr>
<td>2013</td>
<td>161</td>
<td>285</td>
<td>1,77</td>
<td>242</td>
<td>0,67</td>
</tr>
<tr>
<td>2014</td>
<td>154</td>
<td>265</td>
<td>1,72</td>
<td>233</td>
<td>0,66</td>
</tr>
<tr>
<td>2015</td>
<td>141</td>
<td>276</td>
<td>1,96</td>
<td>211</td>
<td>0,67</td>
</tr>
<tr>
<td>2016</td>
<td>133</td>
<td>245</td>
<td>1,84</td>
<td>201</td>
<td>0,66</td>
</tr>
<tr>
<td>2017</td>
<td>120</td>
<td>273</td>
<td>2,28</td>
<td>175</td>
<td>0,69</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hop Area (%)</th>
<th>Production (%)</th>
<th>Yield (%)</th>
<th>Farmers (%)</th>
<th>Hop Area / a Farmer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1978→2017</td>
<td>9,72</td>
<td>12,60</td>
<td>129,55</td>
<td>5,15</td>
</tr>
<tr>
<td>1988→2017</td>
<td>12,24</td>
<td>14,40</td>
<td>117,59</td>
<td>8,61</td>
</tr>
<tr>
<td>1998→2017</td>
<td>33,43</td>
<td>44,10</td>
<td>131,94</td>
<td>29,02</td>
</tr>
<tr>
<td>2008→2017</td>
<td>58,54</td>
<td>61,21</td>
<td>104,57</td>
<td>55,56</td>
</tr>
</tbody>
</table>
Comparison between companies
Almost all hop production in Japan is contracted cultivation by four beer companies.

<table>
<thead>
<tr>
<th>Hop Area (Ha)</th>
<th>Kirin</th>
<th>Sapporo</th>
<th>Asahi</th>
<th>Suntory</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>145</td>
<td>43</td>
<td>11</td>
<td>1</td>
<td>200</td>
</tr>
<tr>
<td>2010</td>
<td>140</td>
<td>41</td>
<td>10</td>
<td>1</td>
<td>192</td>
</tr>
<tr>
<td>2011</td>
<td>133</td>
<td>38</td>
<td>9</td>
<td>1</td>
<td>181</td>
</tr>
<tr>
<td>2012</td>
<td>124</td>
<td>34</td>
<td>9</td>
<td>1</td>
<td>168</td>
</tr>
<tr>
<td>2013</td>
<td>117</td>
<td>35</td>
<td>8</td>
<td>1</td>
<td>161</td>
</tr>
<tr>
<td>2014</td>
<td>110</td>
<td>34</td>
<td>8</td>
<td>1</td>
<td>153</td>
</tr>
<tr>
<td>2015</td>
<td>100</td>
<td>33</td>
<td>7</td>
<td>1</td>
<td>141</td>
</tr>
<tr>
<td>2016</td>
<td>92</td>
<td>33</td>
<td>7</td>
<td>1</td>
<td>133</td>
</tr>
<tr>
<td>2017</td>
<td>83</td>
<td>32</td>
<td>6</td>
<td>0</td>
<td>121</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Production (MT)</th>
<th>Kirin</th>
<th>Sapporo</th>
<th>Asahi</th>
<th>Suntory</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>216</td>
<td>62</td>
<td>23</td>
<td>1</td>
<td>302</td>
</tr>
<tr>
<td>2010</td>
<td>265</td>
<td>77</td>
<td>20</td>
<td>1</td>
<td>363</td>
</tr>
<tr>
<td>2011</td>
<td>241</td>
<td>81</td>
<td>19</td>
<td>1</td>
<td>342</td>
</tr>
<tr>
<td>2012</td>
<td>245</td>
<td>79</td>
<td>19</td>
<td>1</td>
<td>344</td>
</tr>
<tr>
<td>2013</td>
<td>196</td>
<td>72</td>
<td>16</td>
<td>1</td>
<td>285</td>
</tr>
<tr>
<td>2014</td>
<td>178</td>
<td>71</td>
<td>15</td>
<td>1</td>
<td>265</td>
</tr>
<tr>
<td>2015</td>
<td>188</td>
<td>74</td>
<td>12</td>
<td>1</td>
<td>275</td>
</tr>
<tr>
<td>2016</td>
<td>164</td>
<td>68</td>
<td>12</td>
<td>1</td>
<td>245</td>
</tr>
<tr>
<td>2017</td>
<td>182</td>
<td>79</td>
<td>12</td>
<td>0</td>
<td>273</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Farmers</th>
<th>Kirin</th>
<th>Sapporo</th>
<th>Asahi</th>
<th>Suntory</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>135</td>
<td>27</td>
<td>13</td>
<td>0</td>
<td>175</td>
</tr>
</tbody>
</table>
## Comparison between prefecture (region) in 2017

<table>
<thead>
<tr>
<th></th>
<th>Hop Area (Ha)</th>
<th>Production (MT)</th>
<th>Yield (MT/Ha)</th>
<th>Farmers</th>
<th>Hop Area / a Farmer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hokkaido</td>
<td>4.6</td>
<td>10.2</td>
<td>2.23</td>
<td>4</td>
<td>1.15</td>
</tr>
<tr>
<td>Aomori</td>
<td>5.8</td>
<td>13.8</td>
<td>2.37</td>
<td>6</td>
<td>0.97</td>
</tr>
<tr>
<td>Iwate</td>
<td>53.5</td>
<td>114.5</td>
<td>2.14</td>
<td>64</td>
<td>0.84</td>
</tr>
<tr>
<td>Akita</td>
<td>33.2</td>
<td>77.6</td>
<td>2.33</td>
<td>59</td>
<td>0.56</td>
</tr>
<tr>
<td>Yamagata</td>
<td>23.3</td>
<td>52.2</td>
<td>2.24</td>
<td>42</td>
<td>0.55</td>
</tr>
</tbody>
</table>
### New Zealand Hop Area

<table>
<thead>
<tr>
<th>Hop Area (Ha = Hectares)</th>
<th>Year N-1 2017</th>
<th>Year N 2018</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>371</td>
<td>531</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>71</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>442</td>
<td>531</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### New Hop Area (Ha)

<table>
<thead>
<tr>
<th>New Hop Area (Ha)</th>
<th>Year N-1</th>
<th>Year N 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

### TOTAL Hop Area (Ha)

<table>
<thead>
<tr>
<th>TOTAL Hop Area (Ha)</th>
<th>Year N-1</th>
<th>Year N 2018</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>442</td>
<td>531</td>
<td>89</td>
<td></td>
</tr>
</tbody>
</table>

### Production MT=Metric Tons

<table>
<thead>
<tr>
<th>Production MT=Metric Tons</th>
<th>Year N-1</th>
<th>Year N 2018</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>620</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>140</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>760</td>
<td>722</td>
<td>-38</td>
<td></td>
</tr>
</tbody>
</table>

### Yield MT/Ha

<table>
<thead>
<tr>
<th>Yield MT/Ha</th>
<th>Year N-1</th>
<th>Year N 2018</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>1,4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>2,0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>1,7</td>
<td>1,4</td>
<td></td>
</tr>
</tbody>
</table>

### Main Varieties (Ha = Hectares)

<table>
<thead>
<tr>
<th>Main Varieties (Ha = Hectares)</th>
<th>Year N-1 Total Acreage</th>
<th>Year N Total Acreage</th>
<th>Difference</th>
<th>Year N-1 Alpha %</th>
<th>Year N Alpha %</th>
<th>Difference N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Main Varieties (Ha = Hectares)</th>
<th>Year N-1 Total Acreage</th>
<th>Year N Total Acreage</th>
<th>Difference</th>
<th>Year N-1 Alpha %</th>
<th>Year N Alpha %</th>
<th>Difference N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Prod.</td>
<td>Year N-1</td>
<td>2017</td>
<td>Year N</td>
<td>2018</td>
<td>Difference</td>
<td>N-(N-1)</td>
</tr>
<tr>
<td>------------</td>
<td>----------</td>
<td>------</td>
<td>--------</td>
<td>------</td>
<td>------------</td>
<td>---------</td>
</tr>
<tr>
<td>Metric Tons</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
</tr>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>72.0</td>
<td></td>
<td>65.0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contract</th>
<th>Year N</th>
<th>Year N+1</th>
<th>Year N+2</th>
<th>Year N+3</th>
<th>Year N+4</th>
<th>Year N+5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Situation</td>
<td>2018</td>
<td>2019</td>
<td>2020</td>
<td>2021</td>
<td>2022</td>
<td>2023</td>
</tr>
<tr>
<td>Metric tons</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% Crop / Year N</td>
<td>92</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Unsold Hops (MT): Crop Year (N-1) 2017

<table>
<thead>
<tr>
<th>Total Hop Production</th>
<th>Aroma</th>
<th>Alpha</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Sold Production</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>= Unsold Hops</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% unsold Hops</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Hop Prices Euro / Kg

<table>
<thead>
<tr>
<th>Kind of Price</th>
<th>Year (N-2) 2016</th>
<th>Year (N-1) 2017</th>
<th>Year (N) 2018</th>
<th>% Diff. N vs. (N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spot Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contract Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVERAGE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

COMMENTS ON HOP PRODUCTION AND MARKET SITUATION

Country, Date: New Zealand

Source: press release on https://www.nzhops.co.nz
### Hop Area (Ha = Hectares)

<table>
<thead>
<tr>
<th>Year</th>
<th>Aroma</th>
<th>Alpha</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>622</td>
<td>847</td>
<td>1468</td>
</tr>
<tr>
<td>Year</td>
<td>659</td>
<td>918</td>
<td>1576</td>
</tr>
<tr>
<td>N - (N-1)</td>
<td>37</td>
<td>71</td>
<td>108</td>
</tr>
<tr>
<td>Difference</td>
<td>5.9%</td>
<td>8.4%</td>
<td>7.3%</td>
</tr>
</tbody>
</table>

### New Hop Area (Ha)

<table>
<thead>
<tr>
<th>Year</th>
<th>Aroma</th>
<th>Alpha</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>37</td>
<td>71</td>
<td>108</td>
</tr>
<tr>
<td>Year</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
</tbody>
</table>

### TOTAL Hop Area (Ha)

<table>
<thead>
<tr>
<th>Year</th>
<th>Aroma</th>
<th>Alpha</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>659</td>
<td>918</td>
<td>1576</td>
</tr>
<tr>
<td>Year</td>
<td>659</td>
<td>918</td>
<td>1576</td>
</tr>
<tr>
<td>N - (N-1)</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Difference</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

### Production (MT=Metric Tons)

<table>
<thead>
<tr>
<th>Year</th>
<th>Aroma</th>
<th>Alpha</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>1,091</td>
<td>1,902</td>
<td>2,993</td>
</tr>
<tr>
<td>Year</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
</tbody>
</table>

### Yield (MT/Ha)

<table>
<thead>
<tr>
<th>Year</th>
<th>Aroma</th>
<th>Alpha</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>1,8</td>
<td>2,3</td>
<td>2,0</td>
</tr>
<tr>
<td>Year</td>
<td>?</td>
<td>?</td>
<td>?</td>
</tr>
</tbody>
</table>

### Main Varieties (Ha = Hectares)

<table>
<thead>
<tr>
<th>Variety</th>
<th>Year N-1 Total Acreage</th>
<th>Year N Total Acreage</th>
<th>Difference</th>
<th>Year N-1 Alpha %</th>
<th>Year N Alpha %</th>
<th>Difference N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lubelski</td>
<td>419,29</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lomik</td>
<td>2,76</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perle</td>
<td>48,78</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sybilla</td>
<td>98,49</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H. Tradition</td>
<td>70,42</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pulawski</td>
<td>6,72</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Triskel</td>
<td>0,97</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zatecki</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cascade</td>
<td>9,79</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Centennial</td>
<td>0,2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crystal</td>
<td>0,1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marynka</td>
<td>273,11</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnum</td>
<td>520,18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnat</td>
<td>102,32</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Izabella</td>
<td>0,4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iunga</td>
<td>9,67</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chinook</td>
<td>2,01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Columbus</td>
<td>0,1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rodly Hodowlane</td>
<td>1,41</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Taurus</td>
<td>7,66</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oktawia</td>
<td>0,78</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### International Hop Growers’ Convention

**IHGC-Economic Committee: May 2018 - Paris, France**

**Country:** Poland

### Alpha Prod.

<table>
<thead>
<tr>
<th></th>
<th>Year N-1</th>
<th>2017</th>
<th>Year N</th>
<th>2018</th>
<th>Difference</th>
<th>N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
</tr>
<tr>
<td>Aroma</td>
<td>47,6</td>
<td>4,4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>200,5</td>
<td>10,5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>248,1</td>
<td>8,3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Contract Situation

<table>
<thead>
<tr>
<th></th>
<th>Year N</th>
<th>Year N+1</th>
<th>Year N+2</th>
<th>Year N+3</th>
<th>Year N+4</th>
<th>Year N+5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric tons</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% Crop / Year N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Unsold Hops (MT): Crop Year (N-1)

<table>
<thead>
<tr>
<th></th>
<th>2017</th>
<th>Aroma</th>
<th>Alpha</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Hop Production</td>
<td>1091</td>
<td>1902</td>
<td>2993</td>
<td></td>
</tr>
<tr>
<td>- Sold Production</td>
<td>1091</td>
<td>1902</td>
<td>2993</td>
<td></td>
</tr>
<tr>
<td>= Unsold Hops</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>% unsold Hops</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

### Hop Prices

<table>
<thead>
<tr>
<th></th>
<th>Year (N-2) 2016</th>
<th>Year (N-1) 2017</th>
<th>Year (N) 2018</th>
<th>% Diff. N vs. (N-1)</th>
<th>Kind of Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spot Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td>4,48</td>
<td>5,95</td>
<td>7,22</td>
<td>4,79</td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td>4,93</td>
<td>4,84</td>
<td>4,89</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td>5,22</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contract Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td>4,71</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td>5,4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVERAGE</td>
<td>5,06</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Comments on Hop Production and Market Situation

Euro currency rate was calculated as 1 EUR = 4.2 zl.

In Poland we are having some problems with drought, not enough raining. West side is not that bad, but it will be better to have some water. Hop is more less in 1/4 up to 1/3 of construction height. It is looking very nice until now. We had some big problems with temperatures this year - March was cold, than beggining of April was already quite warm and then in the middle of April high temperatures hit the fields, pushing all crops actually to grow fast.
### International Hop Growers’ Convention

**IHGC-Economic Committee: May 2018 - Paris, France**

**Country:** 

**Slovakia**

<table>
<thead>
<tr>
<th>Hop Area (Ha = Hectares)</th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>138</td>
<td>138</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>New Hop Area (Ha)</th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TOTAL Hop Area (Ha)</th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Production (MT= Metric Tons)</th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>104</td>
<td>152</td>
<td>48</td>
<td>46.3</td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>104</td>
<td>152</td>
<td>48</td>
<td>46.3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Yield MT/Ha</th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>0.8</td>
<td>1.1</td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Main Varieties (Ha = Hectares)</th>
<th>Year N-1 Total Acreage</th>
<th>Year N Total Acreage</th>
<th>Difference</th>
<th>Year N-1 Alpha %</th>
<th>Year N Alpha %</th>
<th>Difference (N-N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>Saaz</td>
<td>114</td>
<td>114</td>
<td>2.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Premiant</td>
<td>24</td>
<td>24</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### International Hop Growers’ Convention

**IHGC-Economic Committee: May 2018 - Paris, France**

**Country:**

**Slovakia**

<table>
<thead>
<tr>
<th>Alpha Prod.</th>
<th>Year N-1</th>
<th>2017</th>
<th>Year N</th>
<th>2018</th>
<th>Difference</th>
<th>N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
</tr>
<tr>
<td>Aroma</td>
<td>% (estimate)</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contract</th>
<th>Year N</th>
<th>Year N+1</th>
<th>Year N+2</th>
<th>Year N+3</th>
<th>Year N+4</th>
<th>Year N+5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Situation</td>
<td>2018</td>
<td>2019</td>
<td>2020</td>
<td>2021</td>
<td>2022</td>
<td>2023</td>
</tr>
<tr>
<td>Metric tons</td>
<td>145</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% Crop / Year N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unsold Hops (MT) : Crop Year (N-1)</th>
<th>2017</th>
<th>Aroma</th>
<th>Alpha</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Hop Production</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Sold Production</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>= Unsold Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% unsold Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Hop Prices

<table>
<thead>
<tr>
<th>Euro / Kg</th>
<th>Year (N-2)</th>
<th>2016</th>
<th>Year (N-1)</th>
<th>2017</th>
<th>Year (N)</th>
<th>2018</th>
<th>% Diff. N vs. (N-1)</th>
<th>Kind of Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spot Prices</td>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contract Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVERAGE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### COMMENTS ON HOP PRODUCTION AND MARKET SITUATION

Spring is very dry.
### Hop Area (Ha = Hectares)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>1 393</td>
<td>1 526</td>
<td>133</td>
<td>9,5</td>
</tr>
<tr>
<td>Alpha</td>
<td>21</td>
<td>21</td>
<td>0</td>
<td>0,0</td>
</tr>
<tr>
<td>Total</td>
<td>1 414</td>
<td>1 547</td>
<td>133</td>
<td>9,4</td>
</tr>
</tbody>
</table>

### New Hop Area (Ha)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>176</td>
<td>120</td>
</tr>
<tr>
<td>Alpha</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>176</td>
<td>120</td>
</tr>
</tbody>
</table>

### TOTAL Hop Area (Ha)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>1 569</td>
<td>1 646</td>
<td>77</td>
<td>4,9</td>
</tr>
<tr>
<td>Alpha</td>
<td>21</td>
<td>21</td>
<td>0</td>
<td>0,0</td>
</tr>
<tr>
<td>Total</td>
<td>1 590</td>
<td>1 667</td>
<td>77</td>
<td>4,8</td>
</tr>
</tbody>
</table>

### Production MT=Metric Tons

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>2 731</td>
<td>2 900</td>
<td>133</td>
<td>4,8</td>
</tr>
<tr>
<td>Alpha</td>
<td>36</td>
<td>36</td>
<td>0</td>
<td>0,0</td>
</tr>
<tr>
<td>Total</td>
<td>2 767</td>
<td>2 936</td>
<td>133</td>
<td>4,8</td>
</tr>
</tbody>
</table>

### Yield MT/Ha

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>1,7</td>
<td>1,7</td>
<td>0,0</td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>1,7</td>
<td>1,7</td>
<td>0,0</td>
</tr>
</tbody>
</table>

### Main Varieties (Ha = Hectares)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 Total Acreage</th>
<th>Year N Total Acreage</th>
<th>Difference</th>
<th>Year N-1 Alpha %</th>
<th>Year N Alpha %</th>
<th>Difference N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aurora</td>
<td>482</td>
<td>551</td>
<td>69</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Savinjski golding</td>
<td>178</td>
<td>186</td>
<td>8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Styrian golding-Celeia</td>
<td>594</td>
<td>584</td>
<td>-10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bobek</td>
<td>164</td>
<td>169</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Styrian Gold</td>
<td>49</td>
<td>49</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Styrian Wolf</td>
<td>35</td>
<td>37</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Styrian Cardinal</td>
<td>16</td>
<td>17</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Styrian Kolibri</td>
<td>3</td>
<td>5</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hall. Magnum</td>
<td>15</td>
<td>15</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extra Styrian Dana</td>
<td>6</td>
<td>6</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Comments on Hop Production and Market Situation

Hop market encouraged growers to enlarge their acreage with Styrian aroma (flavor) hops. Areas with new hops in Slovenia embrace varieties Aurora, Styrian golding and other domestic fine aroma (flavor) hops - such as Styrian Wolf and Styrian Cardinal.

Styrian hops (PGI) from Slovenia - a good choice for global craft beers.
<table>
<thead>
<tr>
<th>Hop Area (Ha = Hectares)</th>
<th>Year N-1 2018</th>
<th>Year N 2019 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>73</td>
<td>83</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>354</td>
<td>344</td>
<td>-10</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>427</td>
<td>427</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>New Hop Area (Ha)</th>
<th>Year N-1 2018</th>
<th>Year N 2019 (estimate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TOTAL Hop Area (Ha)</th>
<th>Year N-1 2018</th>
<th>Year N 2019 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>73</td>
<td>83</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>354</td>
<td>344</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>427</td>
<td>427</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Production MT=Metric Tons</th>
<th>Year N-1 2018</th>
<th>Year N 2019 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>77</td>
<td>133</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>677</td>
<td>722</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>754</td>
<td>856</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Yield MT/Ha</th>
<th>Year N-1 2018</th>
<th>Year N 2019 (estimate)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>1,0</td>
<td>1,6</td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>1,9</td>
<td>2,1</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Main Varieties (Ha = Hectares)</th>
<th>Year N-1 Total Acreage</th>
<th>Year N Total Acreage</th>
<th>Difference</th>
<th>Year N-1 Alpha %</th>
<th>Year N Alpha %</th>
<th>Difference N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>XJA2/436</td>
<td>1,4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFRICAN QUEEN</td>
<td>32,7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOUTHERN ARO</td>
<td>2,6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOUTHERN PASS</td>
<td>37</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOUTHERN PRO</td>
<td>103,7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOUTHERN STA</td>
<td>202</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOUTHERN DAW</td>
<td>37,2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research Mix</td>
<td>5,8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>94N1/69</td>
<td>0,3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>95U1/108</td>
<td>1,3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>95U3/132</td>
<td>0,7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>92P/24</td>
<td>2,87</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# International Hop Growers’ Convention

**IHGC-Economic Committee: May 2018 - Paris, France**

### Country:

**South Africa**

### Table: Hop Production and Market Situation

<table>
<thead>
<tr>
<th>Metric Tons</th>
<th>Year N-1</th>
<th>2018</th>
<th>Year N</th>
<th>2019</th>
<th>Difference</th>
<th>N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
</tr>
<tr>
<td>Alpha</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
</tr>
<tr>
<td>Total</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
</tr>
</tbody>
</table>

### Table: Contract Situation

<table>
<thead>
<tr>
<th>Situation</th>
<th>Year N</th>
<th>Year N+1</th>
<th>Year N+2</th>
<th>Year N+3</th>
<th>Year N+4</th>
<th>Year N+5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric tons</td>
<td>2019</td>
<td>2020</td>
<td>2021</td>
<td>2022</td>
<td>2023</td>
<td>2024</td>
</tr>
<tr>
<td>% Crop / Year N</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Table: Unsold Hops

<table>
<thead>
<tr>
<th>Unsold Hops (MT) : Crop Year (N-1)</th>
<th>2018</th>
<th>Aroma</th>
<th>Alpha</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Hop Production</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Sold Production</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>= Unsold Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% unsold Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Table: Hop Prices

<table>
<thead>
<tr>
<th>Hop Prices Euro / Kg</th>
<th>Year (N-2) 2017</th>
<th>Year (N-1) 2018</th>
<th>Year (N) 2019</th>
<th>% Diff. N vs. (N-1)</th>
<th>Kind of Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spot Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contract Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVERAGE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Comments on Hop Production and Market Situation

Community, Date: Lauren Steytler, Hop Farms
### Hop Area

<table>
<thead>
<tr>
<th>Hop Area (Ha = Hectares)</th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>537</td>
<td>543</td>
<td>6</td>
<td>1.1</td>
</tr>
<tr>
<td>Total</td>
<td>537</td>
<td>543</td>
<td>6</td>
<td>1.1</td>
</tr>
</tbody>
</table>

### New Hop Area (Ha)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alpha</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

### TOTAL Hop Area (Ha)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>537</td>
<td>543</td>
<td>6</td>
<td>1.1</td>
</tr>
<tr>
<td>Total</td>
<td>537</td>
<td>543</td>
<td>6</td>
<td>1.1</td>
</tr>
</tbody>
</table>

### Production

<table>
<thead>
<tr>
<th>MT=Metric Tons</th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>662</td>
<td>1 000</td>
<td>338</td>
<td>33.8</td>
</tr>
<tr>
<td>Total</td>
<td>662</td>
<td>1 000</td>
<td>338</td>
<td>33.8</td>
</tr>
</tbody>
</table>

### Yield MT/Ha

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>1.2</td>
<td>1.8</td>
<td>0.6</td>
</tr>
<tr>
<td>Total</td>
<td>1.2</td>
<td>1.8</td>
<td>0.6</td>
</tr>
</tbody>
</table>

### Main Varieties (Ha = Hectares)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 Total Acreage</th>
<th>Year N Total Acreage</th>
<th>Difference</th>
<th>Year N-1 Alpha %</th>
<th>Year N Alpha %</th>
<th>Difference N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>537</td>
<td>543</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Country: Spain
## COMMENTS ON HOP PRODUCTION AND MARKET SITUATION

### Alpha Prod. 

<table>
<thead>
<tr>
<th>Metric Tons</th>
<th>Year N-1</th>
<th>2017</th>
<th>Year N</th>
<th>2018</th>
<th>Difference</th>
<th>N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Av. Contents</td>
<td>% (estimate)</td>
<td>%</td>
<td>%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma</td>
<td>75.9</td>
<td>11.5</td>
<td>110.0</td>
<td>34.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>75.9</td>
<td>11.5</td>
<td>110.0</td>
<td>34.1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Contract 

<table>
<thead>
<tr>
<th>Situation</th>
<th>Year N</th>
<th>Year N+1</th>
<th>Year N+2</th>
<th>Year N+3</th>
<th>Year N+4</th>
<th>Year N+5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric tons</td>
<td>1100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Unsold Hops (MT) Crop Year (N-1) 

<table>
<thead>
<tr>
<th>Total Hop Production</th>
<th>Aroma</th>
<th>Alpha</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sold Production</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unsold Hops</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% unsold Hops</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Hop Prices 

<table>
<thead>
<tr>
<th>Euro / Kg</th>
<th>Year (N-2)</th>
<th>Year (N-1)</th>
<th>Year (N)</th>
<th>% Diff. N vs. (N-1)</th>
<th>Kind of Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spot Prices</td>
<td>2016</td>
<td>2017</td>
<td>2018</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contract Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Prices</td>
<td></td>
<td></td>
<td></td>
<td>4.6</td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVERAGE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Hop Prices 

<table>
<thead>
<tr>
<th>Kind of Price</th>
<th>Year (N-2)</th>
<th>Year (N-1)</th>
<th>Year (N)</th>
<th>% Diff. N vs. (N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Prices</td>
<td></td>
<td></td>
<td></td>
<td>4.6</td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVERAGE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Country, Date: Spain 16.05.2018

Member Organization(s): LÚPULOS DE LEÓN SAT
**International Hop Growers’ Convention**

**IHGC-Economic Committee: May 2018 - Paris, France**

**Country:**

**UK**

### Hop Area (Ha = Hectares)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>967</td>
<td>972</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>967</td>
<td>972</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

### New Hop Area (Ha)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### TOTAL Hop Area (Ha)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>967</td>
<td>972</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>967</td>
<td>972</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

### Production MT=Metric Tons

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>1 780</td>
<td>1 500</td>
<td>-280</td>
<td>-15.7</td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>1 780</td>
<td>1 500</td>
<td>-280</td>
<td>-15.7</td>
</tr>
</tbody>
</table>

### Yield MT/Ha

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>1.8</td>
<td>1.6</td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Main Varieties (Ha = Hectares)

<table>
<thead>
<tr>
<th></th>
<th>Year N-1 Total Acreage</th>
<th>Year N Total Acreage</th>
<th>Difference</th>
<th>Year N-1 Alpha %</th>
<th>Year N Alpha %</th>
<th>Difference N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metric Tons</td>
<td>2017</td>
<td>2018</td>
<td>Difference</td>
<td>N-(N-1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td>------</td>
<td>------</td>
<td>------------</td>
<td>---------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td></td>
</tr>
<tr>
<td>Alpha</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td></td>
</tr>
</tbody>
</table>

### Contract Situation

<table>
<thead>
<tr>
<th>Year N</th>
<th>Year N+1</th>
<th>Year N+2</th>
<th>Year N+3</th>
<th>Year N+4</th>
<th>Year N+5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric tons</td>
<td>% Crop / Year N</td>
<td>85</td>
<td>80</td>
<td>70</td>
<td>60</td>
</tr>
</tbody>
</table>

### Unsold Hops (MT) : Crop Year (N-1)

<table>
<thead>
<tr>
<th>Total Hop Production</th>
<th>Aroma</th>
<th>Alpha</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1780</td>
<td>1780</td>
<td>0</td>
<td>None</td>
</tr>
</tbody>
</table>

### Hop Prices

<table>
<thead>
<tr>
<th>Hop Prices</th>
<th>Euro / Kg</th>
<th>Year (N-2)</th>
<th>Year (N-1)</th>
<th>Year (N)</th>
<th>% Diff. N vs. (N-1)</th>
<th>Kind of Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spot Prices</td>
<td></td>
<td>2016</td>
<td>2017</td>
<td>2018</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contract Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alpha Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVERAGE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### COMMENTS ON HOP PRODUCTION AND MARKET SITUATION
## International Hop Growers’ Convention

IHGC-Economic Committee: May 18, 2018 - Paris, France

### USA

<table>
<thead>
<tr>
<th>Hop Area (Ha = Hectares)</th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>17 242</td>
<td>16 800</td>
<td>-442</td>
<td>-2.6%</td>
</tr>
<tr>
<td>Bitter</td>
<td>5 292</td>
<td>6 340</td>
<td>1 048</td>
<td>19.8%</td>
</tr>
<tr>
<td>Total</td>
<td>22 534</td>
<td>23 140</td>
<td>606</td>
<td>2.7%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>New Hop Area (Ha)</th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bitter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TOTAL Hop Area (Ha)</th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>17 242</td>
<td>16 800</td>
<td>-442</td>
<td>-2.6%</td>
</tr>
<tr>
<td>Bitter</td>
<td>5 292</td>
<td>6 340</td>
<td>1 048</td>
<td>19.8%</td>
</tr>
<tr>
<td>Total</td>
<td>22 534</td>
<td>23 140</td>
<td>606</td>
<td>2.7%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Production MT=Metric Tons</th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference N - (N-1)</th>
<th>Difference %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>34 374</td>
<td>30 240</td>
<td>-4 134</td>
<td>-12.0%</td>
</tr>
<tr>
<td>Bitter</td>
<td>13 817</td>
<td>15 216</td>
<td>1 399</td>
<td>10.1%</td>
</tr>
<tr>
<td>Total</td>
<td>48 191</td>
<td>45 456</td>
<td>-2 735</td>
<td>-5.7%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Yield MT/ha</th>
<th>Year N-1 2017</th>
<th>Year N 2018 (estimate)</th>
<th>Difference %</th>
<th>Pounds/Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>1.99</td>
<td>1.80</td>
<td></td>
<td>1 606</td>
</tr>
<tr>
<td>Bitter</td>
<td>2.61</td>
<td>2.40</td>
<td></td>
<td>2 141</td>
</tr>
<tr>
<td>Total</td>
<td>2.14</td>
<td>1.96</td>
<td></td>
<td>1 753</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Individual Varieties (Ha = Hectares)</th>
<th>Year N-1 Total Acreage</th>
<th>Year N Total Acreage</th>
<th>Difference</th>
<th>Year N-1 Alpha %</th>
<th>Year N Alpha %</th>
<th>Difference N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aroma</td>
<td>9.2%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Azacca™, ADHA-483</td>
<td>232</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cascade</td>
<td>3 010</td>
<td>2 750</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Centennial</td>
<td>2 160</td>
<td>2 040</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citra®, HBC 394</td>
<td>2 138</td>
<td>2 557</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chinook</td>
<td>1 020</td>
<td>1 000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>El Dorado</td>
<td>267</td>
<td>200</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mosaic™, HBC 369</td>
<td>1 122</td>
<td>1 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Simcoe®, YCR 14</td>
<td>1 821</td>
<td>2 098</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Willamette</td>
<td>671</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Bitter                               | 14.5%                   |                      |            |                  |                |                   |
| Apollo™                               | 375                     |                      |            |                  |                |                   |
| Bravo™                                | 255                     |                      |            |                  |                |                   |
| CTZ                                   | 2 004                   | 2386                 |            |                  |                |                   |
| Nugget                               | 592                     |                      |            |                  |                |                   |
| Summit™                               | 654                     | 654                  |            |                  |                |                   |
| Super Galena™                         | 200                     |                      |            |                  |                |                   |
### International Hop Growers’ Convention

IHGC-Economic Committee: May 18, 2018 - Paris, France

#### USA

### Table: Hop Production and Market Situation

<table>
<thead>
<tr>
<th>Alpha Prod.</th>
<th>Year N-1</th>
<th>2017</th>
<th>Year N</th>
<th>2018</th>
<th>Difference N-(N-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric Tons</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
<td>Av. Contents</td>
<td>Metric Tons</td>
</tr>
<tr>
<td>Aroma</td>
<td>3,162</td>
<td>9.2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bitter</td>
<td>2,003</td>
<td>14.5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>5,166</td>
<td>10.6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Table: Contract Situation

<table>
<thead>
<tr>
<th>Contract</th>
<th>Year N</th>
<th>Year N+1</th>
<th>Year N+2</th>
<th>Year N+3</th>
<th>Year N+4</th>
<th>Year N+5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric tons</td>
<td>2018</td>
<td>2019</td>
<td>2020</td>
<td>2021</td>
<td>2022</td>
<td>2023</td>
</tr>
<tr>
<td>% Crop / Year N</td>
<td>98</td>
<td>95</td>
<td>65</td>
<td>40</td>
<td>30</td>
<td>25</td>
</tr>
</tbody>
</table>

### Table: Unsold Hops

<table>
<thead>
<tr>
<th>Unsold Hops (MT) : Crop Year (N-1)</th>
<th>2018</th>
<th>Aroma</th>
<th>Bitter</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Hop Production</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Sold Production</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>= Unsold Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>% unsold Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Table: Hop Prices

<table>
<thead>
<tr>
<th>Hop Prices</th>
<th>Year (N-2)</th>
<th>Year (N-1)</th>
<th>Year (N)</th>
<th>% Diff. N vs. (N-1)</th>
<th>Kind of Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Euro / Kg</td>
<td>2017</td>
<td>2018</td>
<td>2019</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spot Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bitter Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contract Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bitter Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Average Prices</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aroma Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bitter Hops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AVERAGE</td>
<td>US$5.72/lb</td>
<td>US$5.92/lb</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10.46 Euro/kg</td>
<td>10.83 Euro/kg</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Comments on Hop Production and Market Situation

Exchange rate $1 USD = 0.83 Euro (3 MAY 2018)

Alpha and aroma classifications are based on the IHGC list of World Hop Varieties.

Varieties listed in the “Other” category of US statistical reports published by USDA-NASS are assumed to be 50% aroma and 50% bitter.

Non-Pacific Northwest acreage is assumed to be 80% aroma and 20% bitter.

The USDA statistical reporting system is voluntary, and individual varieties are not reported if three or fewer growers have the variety in each state.
Figure 2: Australia hop crops 2004 - 2018
Figure 3: Austria hop crops 2004 - 2018*

<table>
<thead>
<tr>
<th>Year</th>
<th>Acreage</th>
<th>Production</th>
<th>Alpha Prod.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>300</td>
<td>208</td>
<td>22</td>
</tr>
<tr>
<td>2005</td>
<td>314</td>
<td>205</td>
<td>22</td>
</tr>
<tr>
<td>2006</td>
<td>304</td>
<td>204</td>
<td>21</td>
</tr>
<tr>
<td>2007</td>
<td>353</td>
<td>200</td>
<td>22</td>
</tr>
<tr>
<td>2008</td>
<td>386</td>
<td>214</td>
<td>25</td>
</tr>
<tr>
<td>2009</td>
<td>342</td>
<td>217</td>
<td>30</td>
</tr>
<tr>
<td>2010</td>
<td>368</td>
<td>232</td>
<td>38</td>
</tr>
<tr>
<td>2011</td>
<td>447</td>
<td>246</td>
<td>40</td>
</tr>
<tr>
<td>2012</td>
<td>446</td>
<td>247</td>
<td>40</td>
</tr>
<tr>
<td>2013</td>
<td>374</td>
<td>247</td>
<td>40</td>
</tr>
<tr>
<td>2014</td>
<td>491</td>
<td>249</td>
<td>41</td>
</tr>
<tr>
<td>2015</td>
<td>479</td>
<td>249</td>
<td>35</td>
</tr>
<tr>
<td>2016</td>
<td>439</td>
<td>250</td>
<td>35</td>
</tr>
<tr>
<td>2017</td>
<td>445</td>
<td>252</td>
<td>36</td>
</tr>
<tr>
<td>2018*</td>
<td>20</td>
<td>41</td>
<td>36</td>
</tr>
</tbody>
</table>

* estimation
Figure 4: Belgium hop crops 2004 - 2018*

<table>
<thead>
<tr>
<th>Year</th>
<th>Hectares</th>
<th>Production</th>
<th>Alpha Prod.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>194</td>
<td>395</td>
<td>39</td>
</tr>
<tr>
<td>2005</td>
<td>191</td>
<td>364</td>
<td>38</td>
</tr>
<tr>
<td>2006</td>
<td>181</td>
<td>27</td>
<td>32</td>
</tr>
<tr>
<td>2007</td>
<td>176</td>
<td>248</td>
<td>27</td>
</tr>
<tr>
<td>2008</td>
<td>186</td>
<td>320</td>
<td>34</td>
</tr>
<tr>
<td>2009</td>
<td>186</td>
<td>336</td>
<td>36</td>
</tr>
<tr>
<td>2010</td>
<td>186</td>
<td>373</td>
<td>23</td>
</tr>
<tr>
<td>2011</td>
<td>186</td>
<td>251</td>
<td>24</td>
</tr>
<tr>
<td>2012</td>
<td>180</td>
<td>235</td>
<td>24</td>
</tr>
<tr>
<td>2013</td>
<td>158</td>
<td>111</td>
<td>11</td>
</tr>
<tr>
<td>2014</td>
<td>185</td>
<td>148</td>
<td>13</td>
</tr>
<tr>
<td>2015</td>
<td>148</td>
<td>148</td>
<td>15</td>
</tr>
<tr>
<td>2016</td>
<td>149</td>
<td>149</td>
<td>15</td>
</tr>
<tr>
<td>2017</td>
<td>169</td>
<td>169</td>
<td>16</td>
</tr>
<tr>
<td>2018</td>
<td>180</td>
<td>237</td>
<td>18</td>
</tr>
</tbody>
</table>

* estimation
Figure 5: China hop crops 2004 - 2018*

<table>
<thead>
<tr>
<th>Year</th>
<th>Acreage</th>
<th>Production</th>
<th>Alpha Prod.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>11,195</td>
<td>4,400</td>
<td>892</td>
</tr>
<tr>
<td>2005</td>
<td>10,576</td>
<td>3,500</td>
<td>854</td>
</tr>
<tr>
<td>2006</td>
<td>9,500</td>
<td>1,987</td>
<td>490</td>
</tr>
<tr>
<td>2007</td>
<td>5,630</td>
<td>5,796</td>
<td>863</td>
</tr>
<tr>
<td>2008</td>
<td>7,170</td>
<td>5,796</td>
<td>863</td>
</tr>
<tr>
<td>2009</td>
<td>860</td>
<td>5,796</td>
<td>863</td>
</tr>
<tr>
<td>2010</td>
<td>904</td>
<td>4,458</td>
<td>904</td>
</tr>
<tr>
<td>2011</td>
<td>700</td>
<td>4,031</td>
<td>860</td>
</tr>
<tr>
<td>2012</td>
<td>7,000</td>
<td>3,000</td>
<td>727</td>
</tr>
<tr>
<td>2013</td>
<td>6,900</td>
<td>4,83</td>
<td>748</td>
</tr>
<tr>
<td>2014</td>
<td>6,000</td>
<td>4,40</td>
<td>717</td>
</tr>
<tr>
<td>2015</td>
<td>4,500</td>
<td>3,000</td>
<td>700</td>
</tr>
<tr>
<td>2016</td>
<td>3,000</td>
<td>2,683</td>
<td>704</td>
</tr>
<tr>
<td>2017</td>
<td>6,000</td>
<td>2,683</td>
<td>704</td>
</tr>
<tr>
<td>2018</td>
<td>6,000</td>
<td>2,683</td>
<td>704</td>
</tr>
</tbody>
</table>

* estimation
Figure 6: Czech Republic hop crops 2004 - 2018*
Figure 7: France hop crops 2004 - 2018*
Figure 8: Germany hop crops 2004 - 2018*

<table>
<thead>
<tr>
<th>Year</th>
<th>Hectares (acreage)</th>
<th>Production (tons)</th>
<th>Alpha Production (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>33,207</td>
<td>32,271</td>
<td>2,967</td>
</tr>
<tr>
<td>2005</td>
<td>34,438</td>
<td>25,350</td>
<td>1,861</td>
</tr>
<tr>
<td>2006</td>
<td>32,139</td>
<td>33,207</td>
<td>3,180</td>
</tr>
<tr>
<td>2007</td>
<td>28,500</td>
<td>34,438</td>
<td>3,522</td>
</tr>
<tr>
<td>2008</td>
<td>4,251</td>
<td>31,344</td>
<td>3,600</td>
</tr>
<tr>
<td>2009</td>
<td>39,676</td>
<td>4,466</td>
<td>3,859</td>
</tr>
<tr>
<td>2010</td>
<td>34,234</td>
<td>34,475</td>
<td>3,600</td>
</tr>
<tr>
<td>2011</td>
<td>38,110</td>
<td>38,500</td>
<td>4,104</td>
</tr>
<tr>
<td>2012</td>
<td>38,500</td>
<td>4,775</td>
<td>2,720</td>
</tr>
<tr>
<td>2013</td>
<td>4,556</td>
<td>28,337</td>
<td>2,525</td>
</tr>
<tr>
<td>2014</td>
<td>4,265</td>
<td>42,766</td>
<td>2,525</td>
</tr>
<tr>
<td>2015</td>
<td>4,950</td>
<td>41,556</td>
<td>2,525</td>
</tr>
<tr>
<td>2016</td>
<td>4,775</td>
<td>41,556</td>
<td>2,525</td>
</tr>
<tr>
<td>2017</td>
<td>4,265</td>
<td>41,556</td>
<td>2,525</td>
</tr>
<tr>
<td>2018</td>
<td>4,950</td>
<td>43,700</td>
<td>4,265</td>
</tr>
</tbody>
</table>

* estimation
Figure 9: New Zealand hop crops 2004 - 2018
Figure 10: Poland hop crops 2004 - 2018*

<table>
<thead>
<tr>
<th>Year</th>
<th>Hectars</th>
<th>Production</th>
<th>Alpha Prod.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>2,239</td>
<td>2,898</td>
<td>239</td>
</tr>
<tr>
<td>2005</td>
<td>2,291</td>
<td>3,414</td>
<td>237</td>
</tr>
<tr>
<td>2006</td>
<td>2,234</td>
<td>2,700</td>
<td>162</td>
</tr>
<tr>
<td>2007</td>
<td>2,179</td>
<td>2,222</td>
<td>222</td>
</tr>
<tr>
<td>2008</td>
<td>2,233</td>
<td>2,566</td>
<td>256</td>
</tr>
<tr>
<td>2009</td>
<td>2,233</td>
<td>3,446</td>
<td>256</td>
</tr>
<tr>
<td>2010</td>
<td>1,768</td>
<td>1,500</td>
<td>150</td>
</tr>
<tr>
<td>2011</td>
<td>1,768</td>
<td>1,900</td>
<td>169</td>
</tr>
<tr>
<td>2012</td>
<td>1,510</td>
<td>1,980</td>
<td>180</td>
</tr>
<tr>
<td>2013</td>
<td>1,407</td>
<td>2,090</td>
<td>209</td>
</tr>
<tr>
<td>2014</td>
<td>1,410</td>
<td>2,072</td>
<td>207</td>
</tr>
<tr>
<td>2015</td>
<td>1,444</td>
<td>2,224</td>
<td>224</td>
</tr>
<tr>
<td>2016</td>
<td>1,475</td>
<td>2,421</td>
<td>242</td>
</tr>
<tr>
<td>2017</td>
<td>1,576</td>
<td>3,014</td>
<td>301</td>
</tr>
<tr>
<td>2018*</td>
<td>1,576</td>
<td>2,993</td>
<td>299</td>
</tr>
</tbody>
</table>

* estimation
Figure 11: Romania hop crops 2004 - 2018*
<table>
<thead>
<tr>
<th>Year</th>
<th>Hectares</th>
<th>Production</th>
<th>Alpha Prod.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>350</td>
<td>302</td>
<td>10</td>
</tr>
<tr>
<td>2005</td>
<td>350</td>
<td>375</td>
<td>12</td>
</tr>
<tr>
<td>2006</td>
<td>350</td>
<td>352</td>
<td>14</td>
</tr>
<tr>
<td>2007</td>
<td>300</td>
<td>215</td>
<td>7</td>
</tr>
<tr>
<td>2008</td>
<td>280</td>
<td>235</td>
<td>7</td>
</tr>
<tr>
<td>2009</td>
<td>220</td>
<td>229</td>
<td>10</td>
</tr>
<tr>
<td>2010</td>
<td>205</td>
<td>214</td>
<td>7</td>
</tr>
<tr>
<td>2011</td>
<td>272</td>
<td>217</td>
<td>13</td>
</tr>
<tr>
<td>2012</td>
<td>203</td>
<td>174</td>
<td>9</td>
</tr>
<tr>
<td>2013</td>
<td>193</td>
<td>137</td>
<td>7</td>
</tr>
<tr>
<td>2014</td>
<td>183</td>
<td>137</td>
<td>6</td>
</tr>
<tr>
<td>2015</td>
<td>187</td>
<td>137</td>
<td>7</td>
</tr>
<tr>
<td>2016</td>
<td>183</td>
<td>137</td>
<td>7</td>
</tr>
<tr>
<td>2017</td>
<td>104</td>
<td>138</td>
<td>5</td>
</tr>
<tr>
<td>2018*</td>
<td>152</td>
<td>138</td>
<td>7</td>
</tr>
</tbody>
</table>

*Estimation
Figure 13: Slovenia hop crops 2004 - 2018*

<table>
<thead>
<tr>
<th>Year</th>
<th>Hectares (acreage)</th>
<th>Production</th>
<th>Alpha Production</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>1,665</td>
<td>2690</td>
<td>126</td>
</tr>
<tr>
<td>2005</td>
<td>1,511</td>
<td>2539</td>
<td>90</td>
</tr>
<tr>
<td>2006</td>
<td>1,522</td>
<td>1,624</td>
<td>148</td>
</tr>
<tr>
<td>2007</td>
<td>1,568</td>
<td>1,987</td>
<td>230</td>
</tr>
<tr>
<td>2008</td>
<td>1,618</td>
<td>2,499</td>
<td>208</td>
</tr>
<tr>
<td>2009</td>
<td>1,639</td>
<td>2,461</td>
<td>140</td>
</tr>
<tr>
<td>2010</td>
<td>1,391</td>
<td>1,560</td>
<td>97</td>
</tr>
<tr>
<td>2011</td>
<td>1,376</td>
<td>1,400</td>
<td>113</td>
</tr>
<tr>
<td>2012</td>
<td>1,160</td>
<td>1,750</td>
<td>148</td>
</tr>
<tr>
<td>2013</td>
<td>1,165</td>
<td>1,350</td>
<td>177</td>
</tr>
<tr>
<td>2014</td>
<td>1,296</td>
<td>1,400</td>
<td>140</td>
</tr>
<tr>
<td>2015</td>
<td>1,403</td>
<td>1,590</td>
<td>97</td>
</tr>
<tr>
<td>2016</td>
<td>1,484</td>
<td>1,550</td>
<td>100</td>
</tr>
<tr>
<td>2017</td>
<td>1,590</td>
<td>1,276</td>
<td>120</td>
</tr>
<tr>
<td>2018*</td>
<td>1,667</td>
<td>1,667</td>
<td>155</td>
</tr>
</tbody>
</table>

* estimation
Figure 14: South Africa hop crops 2004 - 2018*
Figure 15: Spain hop crops 2004 - 2018*
### Figure 16: UK-England hop crops 2004 - 2018*

<table>
<thead>
<tr>
<th>Year</th>
<th>Acreage</th>
<th>Production</th>
<th>Alpha Prod.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>1376</td>
<td>2083</td>
<td></td>
</tr>
<tr>
<td>2005</td>
<td>1187</td>
<td>1693</td>
<td></td>
</tr>
<tr>
<td>2006</td>
<td>1056</td>
<td>1410</td>
<td></td>
</tr>
<tr>
<td>2007</td>
<td>1060</td>
<td>1472</td>
<td></td>
</tr>
<tr>
<td>2008</td>
<td>1060</td>
<td>1410</td>
<td></td>
</tr>
<tr>
<td>2009</td>
<td>1113</td>
<td>1459</td>
<td></td>
</tr>
<tr>
<td>2010</td>
<td>109</td>
<td>1450</td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td>125</td>
<td>1600</td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td>96</td>
<td>1425</td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td>104</td>
<td>1472</td>
<td></td>
</tr>
<tr>
<td>2014</td>
<td>100</td>
<td>1410</td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td>109</td>
<td>1472</td>
<td></td>
</tr>
<tr>
<td>2016</td>
<td>125</td>
<td>1600</td>
<td></td>
</tr>
<tr>
<td>2017</td>
<td>96</td>
<td>1425</td>
<td></td>
</tr>
<tr>
<td>2018*</td>
<td>115</td>
<td>1472</td>
<td></td>
</tr>
</tbody>
</table>

* estimation
Figure 17: USA hop crops 2004 - 2018*