A Brief History of Roses

Roses are a beautiful genus of plants with over 77 species grown over the last thirty years at the Georgeson Botanical Garden. According to fossil evidence, the rose plant is approximately thirty-five million years old. Since then, nearly 150 species have been grown and are spread throughout the northern hemisphere, from Alaska to North Africa. Rose cultivation began roughly five-thousand years ago and popular interest in the breeding and hybridization of roses led to the many varieties that exist today. The American Rose Society (ARS) classifies roses into three categories based on botanical and evolutionary progression which include the Species (Wild) Roses, Old Garden Roses, and Modern Roses.

Roses are from the Rosaceae family. Rosaceae consists of herbs, shrubs, and trees with roughly 3,000 known species from 90 genera. There are several commonly known members including raspberries and blackberries (Rubus), plums, cherries, apricots, peaches nectarines, and almonds (Prunus), apples (Malus), quince (Cydonia), and of course, roses (Rosa).

Rosaceae serrated leaves are almost always deciduous and spirally whorled around the stem. In some of the woody plants within this family, sharp spines produce from the stem, commonly known as thorns. These thorns don’t stop the moose from foraging on roses in the garden. The flowers bloom with five petals and they can grow as small clusters or large single blooms and vary in color from white to pink to crimson.

Rosaceae are monecious with the flowers containing both male and female reproductive parts. In roses the ovary is inferior – meaning it is positioned below the sepals and petals. The carpels are surrounded and fused to a hollow receptacle called the ‘floral cup’ or ‘hypanthium’. When pollinated, the rose ovary will turn into a fruit known as a ‘pseudocarp’, more commonly identified as a rose hip.

Read more about roses in our garden blog Realm of Roses: An Introduction to Rosa by Shelby Reynolds MS, RDN, LD at our website www.georgesonbotanicalgarden.org.

Thank you to the contributors of this project: Janet Matheson, Katie DiCristina, Melanie Graeff, and Lacey Higham!

The Georgeson Botanical Garden relies on public donations and grants for operations, summer staffing, and maintenance. We welcome all donations to the garden. You can donate to the Georgeson Botanical Garden via the UA Foundation or through the GBG Friends. Both use your donation to directly support the Garden. Visit our website for more information.

The Garden is operated and supported by the University of Alaska Fairbanks and the Georgeson Botanical Garden Friends, a non-profit, 501(c)3, whose mission is to supports the operations of the Georgeson Botanical Garden.

The Garden is open Memorial Day through Labor Day.

PO Box 757200
21800 West Tanana Drive
University of Alaska Fairbanks
Fairbanks, AK 99775

www.georgesonbotanicalgarden.org

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<table>
<thead>
<tr>
<th>Found?</th>
<th>Number</th>
<th>Cultivar Name</th>
<th>Common Name</th>
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<tr>
<td>Display Garden</td>
<td>Central plots</td>
<td>3rd &amp; Graehl</td>
<td>3rd &amp; Graehl Rose</td>
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<td>3rd &amp; Graehl Rose</td>
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<td>Rugosa Rose</td>
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<td>Rugosa or Turkestan Roses</td>
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<td>Lac LaNonne</td>
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<td>Stop 5</td>
<td>14777</td>
<td>Jens Monk</td>
<td>Shrub Rose Explorer Series</td>
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<td>Alaska Native Plants Garden</td>
<td>3rd &amp; Graehl</td>
<td>3rd &amp; Graehl Rose</td>
<td>3</td>
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Research Garden
Trial Plots 10, 11, 12, 14, 19, 20 respectively

| Stop 7 | Dinkel | 1 |
| Stop 8 | 16078 | Hansa | Hybrid Rose | 5 |
| 17018 | Scabrosa | Hybrid Rose | 5 |
| 19556 | ‘RADsun’ | Carefree Sunshine® Rose | 1 |
| 19558 | ‘DARpellerin’ | Cape Diamond® shrub Rose | 4 |
| Stop 9 | 14722 | Martin Frobisher | Shrub Rose Explorer Series | 5 |
| 14773 | Alba Piena | Rugosa Rose | 5 |
| 14777 | Jens Munk | Shrub Rose Explorer Series | 1 |
| 16078 | Hansa | Hybrid Rose | 5 |
| 17493 | Glaucia | Redleaf Rose | 4 |
| 18996 | Champlain (Explorer Series) | Shrub Rose | 5 |
| Stop 10 | 18725 | 3rd & Graehl | 3rd & Graehl Rose | 5 |
| 15741 | Snow Pavement | Hybrid Rose | 1 |

Babula Children’s Garden
(Ted Fathauer Weather Garden, outer circle)

| Stop 11 | 18731 | Pearl Creek Shrub Rose | 5 |
| Stop 12 | 15734 | Hazeldean | Shrub Rose | 5 |
| 16072 | Apart | 2 |
| 16078 | Hansa | 1 |
| 14773 | Alba Piena | 5 |
| 17904 | John Davis | 2 |
| 16079 | George Vancouver | 5 |
| 14777 | Jens Monk | Shrub Rose Explorer Series | 4 |
| 18725 | 3rd & Graehl | 3rd & Graehl Rose | 3 |
| 15741 | Snow Pavement | Hybrid Rose | 1 |

Babula Children’s Garden
(Water Garden, adjacent to water flume)

| Stop 13 | 80 | Rugosa or Turkestan Roses | Rugosa Rose |
| Stop 14 | 10 | Rugosa or Turkestan Roses | Rugosa Rose |