



Blue Honeysuckle (Haskap) Production

Orchard Planting / Establishment / Maintenance








ORCHARD ESTABLISHMENT / MAINTENANCE







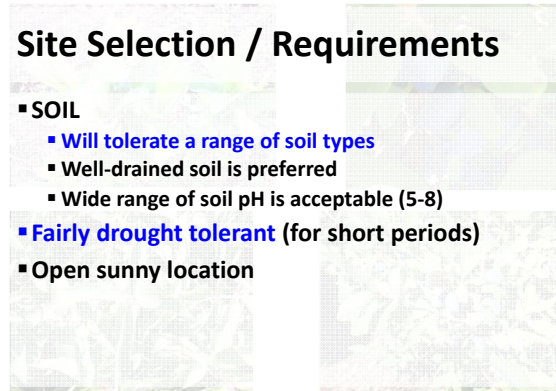


INSTA-POLL

“WHAT IS THE MOST IMPORTANT FACTOR IN ESTABLISHING AN ORCHARD?”






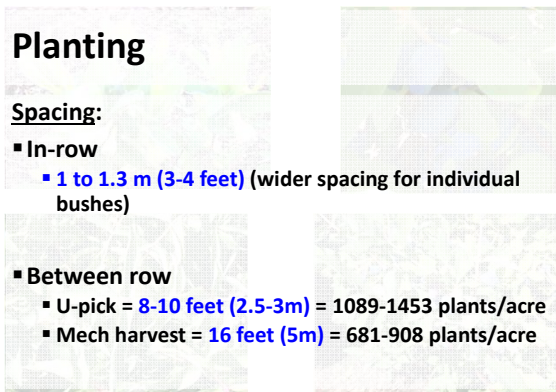




Site Selection / Requirements

- **SOIL**
 - Will tolerate a range of soil types
 - Well-drained soil is preferred
 - Wide range of soil pH is acceptable (5-8)
- Fairly drought tolerant (for short periods)
- Open sunny location








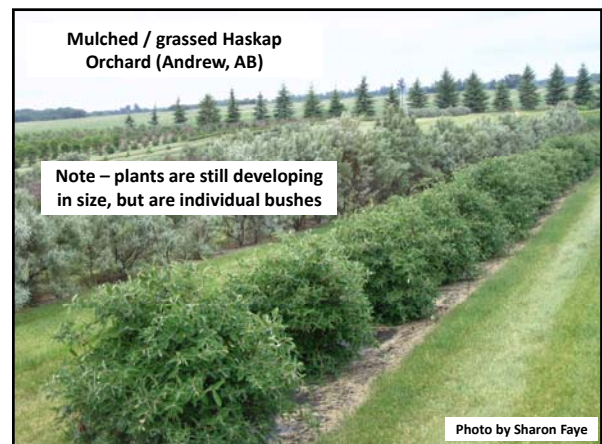


Planting

Spacing:

- **In-row**
 - 1 to 1.3 m (3-4 feet) (wider spacing for individual bushes)
- **Between row**
 - U-pick = 8-10 feet (2.5-3m) = 1089-1453 plants/acre
 - Mech harvest = 16 feet (5m) = 681-908 plants/acre








Planting – cont'd

Depth:

- Plant deeper than original depth in nursery (1-2 inches)



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“HOW SHOULD YOU MANAGE THE BETWEEN-ROW SPACES (ALLEYWAYS)”



Planting – cont'd


Other:

- Manage between-row spaces similar to Saskatoon berries
 - Varies with usage, location, soil type, etc.




Fertility

- Specific fertility requirements are unknown
- General base fertility levels
 - 65 lb N/ac (70 kg N/ha)
 - 90 lb P/ac (100 kg P/ha)
 - 355 lb K/ac (400 kg K/ha)
- Apply starter fertilizer at planting (high P)




Fertility

- If applying additional fertilizer, apply small amounts in the spring, rather than later in the summer



Irrigation

- Irrigate to ensure establishment (first 3 years)
- Some irrigation may be required annually (depending on soil type and location)
- Will tolerate some dryness for short periods
- Avoid late summer watering, to allow dormancy to develop



Harvest

- **Plants reach full production age within a couple of years of planting**
 - Limited juvenile period
- **Fruit is typically ready for harvest in late June or early July**
- **Harvest fruit when colour has developed throughout *entire* fruit**
 - Exterior may look ready, but inside will be green
- **Fruit can be left on plants for some time**
 - But, birds may eat or they may dry out

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Yield

- **Early yields will be around 3 kg per bush**
- **Full production is estimated at around 7+ kg per bush**

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Pruning

- **No pruning requirement in early years**
 - New shoots come from the base of the plants off the stems
- **Some minimal renewal pruning may be required as plants age**
 - Take out older growth – don't remove more than 25% annually
 - Ensure good air flow in the canopy
- **May need to prune to improve shape for mechanical harvesting**

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POLLINATION

Pollination

- **Pollinator plants are required to ensure large, high quality fruit**
- **Pollinators must**
 - Not be directly related to fruiting bushes
 - Bloom at the approx. same time as the fruiting bushes
- **Current U of S releases are related to some of the Russian varieties**

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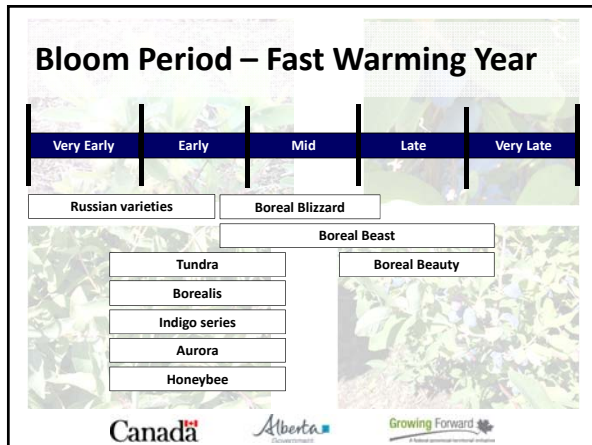
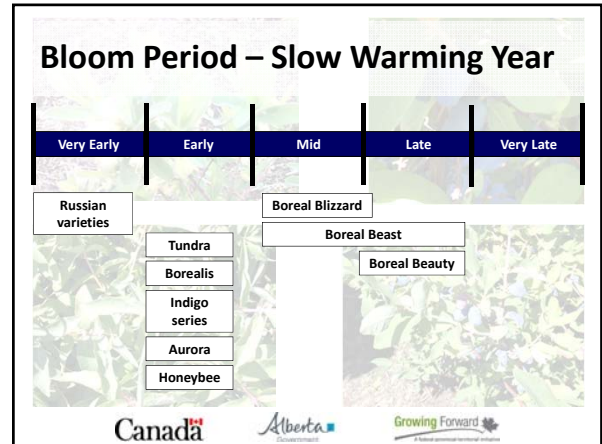
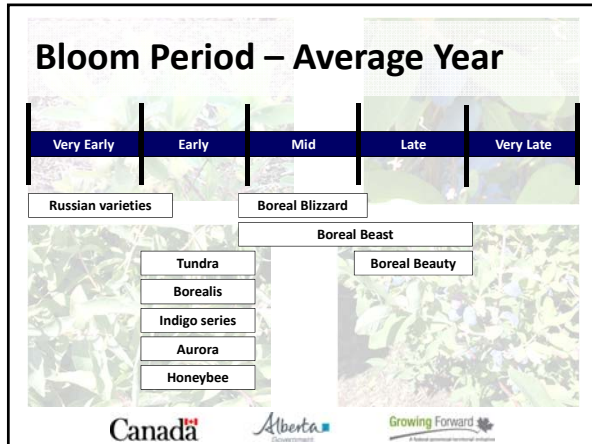
Recommended Pollinators

- **Best**
 - **Honey Bee** (newer release from U of S)
 - Larger plant, average fruit, good mildew resistance
 - **Aurora** (from U of S)
 - companion to Borealis but will pollinate Tundra & Indigo series
 - **Russian types** (bloom same time)
 - Berry Blue (a.k.a. Czech #17), Berel, Gerde, Ognennyi Opal or Dew Drop
- **Not as good** (smaller fruit)
 - Other Russian types
 - Blue Belle, Blue Velvet, Kiev #8, Tomichka
 - U of S varieties (closely related)
- **Not recommended**
 - Japanese / Kuril Island types (bloom 2-3 weeks later)

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	Tundra	Borealis	Indigo series	Aurora	Honey Bee	Berry Blue	Blue Belle	Cinderella	Boreal Blizzard	Boreal Beauty
Tundra	NO	NO	NO	YES	YES	YES	NO	YES	MAYBE	MAYBE
Borealis	NO	NO	NO	YES	YES	YES	NO	YES	?	NO
Indigo series	NO	NO	NO	YES	YES	YES	NO	YES	MAYBE	MAYBE
Aurora	YES	YES	YES	NO	YES	YES	YES	YES	?	NO
Honeybee	YES	YES	YES	YES	NO	YES	YES	YES	?	?
Berry Blue	YES	YES	YES	YES	YES	NO	YES	YES	?	?
Blue Belle	NO	NO	NO	YES	YES	YES	NO	YES	?	?
Cinderella	YES	YES	YES	YES	YES	YES	YES	NO	?	?
Boreal Blizzard	MAYBE	?	MAYBE	?	?	?	?	?	NO	YES?
Boreal Beauty	MAYBE	NO	MAYBE	NO	?	?	?	?	YES?	NO

Pollination Strategy 1 – 1:1

X	P	X	P	X	P	X	P	X
X	P	X	P	X	P	X	P	X
X	P	X	P	X	P	X	P	X
X	P	X	P	X	P	X	P	X
X	P	X	P	X	P	X	P	X
X	P	X	P	X	P	X	P	X

Logos: Canada, Alberta, Growing Forward

Pollination Strategy 2 – 1:2

X	P	X	X	P	X	X	P	X
X	P	X	X	P	X	X	P	X
X	P	X	X	P	X	X	P	X
X	P	X	X	P	X	X	P	X
X	P	X	X	P	X	X	P	X
X	P	X	X	P	X	X	P	X

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Pollination Strategy – 1:5

P	X	P	X	P	X
X	X	X	X	X	X
X	P	X	X	X	P
X	X	X	P	X	X
X	X	X	X	X	X
P	X	P	X	P	X
X	X	X	X	X	X

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Pollination Strategy 3 – 1:8

X	X	X	X	X	X	X	X	X
X	P	X	X	P	X	X	P	X
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X
X	P	X	X	P	X	X	P	X
X	X	X	X	X	X	X	X	X

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Pollination Strategy 4 – 1:24

X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X
X	X	P	X	X	X	X	P	X
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X

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INSTA-POLL (1-4 FINGERS)

“WHICH POLLINATION STRATEGY DO YOU THINK IS BEST?”

1 = 1:1; 2 = 1:2;
3 = 1:8; 4 = 1:24

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- ### Pollination Strategies
- Depending on choices of cultivars
 - Range from 1:1 ratio of pollinator to higher
 - Rule of thumb = 1:5 minimum
 - Pollinators need to be able to see both cultivars
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- ### Pollination Issues?
- Low temperatures in early season
 - During flowering
 - Potential issues with pollinating insect activity
 - Results in poor pollination?
 - Reduced yields
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QUESTIONS???


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**HORT
SNACKS** 

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