

- Native to northern boreal forests in Asia, Europe, and North America.
- Mainly found in low lying, wet areas or high in mountains.





· Breeding has

improved size and

taste of berries



13

- Healthy soil with organic matterDon't over fertilize with
- commercial products**
 Some studies indicate better not to fertilize first year*
- Water deeply as needed, let soil dry out in between watering
- Let plants go dormant naturally in fall (ease off watering)

*2010 Effects of Soil pH and Fertilizers on Haskap (Lonicera caerulea L.) Vegetative Growt & **https://onspecialtycrops.wordpress.com/ 2019/05/22/fertility-midelines-for-haskap-romon-do-ontario/

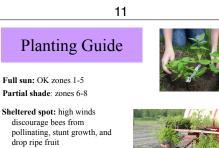


Plants like kitchen scraps and compost tea (soak manure in bucket of water overnight)



High in Calcium, Phosphorous, Vitamin C

Compounds	Content per 100 g of fresh fruit			
	Haskap	Plum	Grape	Tomato
Water	87.5	90.1	84.4	95.0
Protein	1.1	0.7	0.5	0.7
Fat	3.1	1.6	0.2	0.1
Sugar	3.5	6.5	14.4	3.3
pH	3.4			
Calcium (mg)	59.0	12.0	6.0	9.0
Phosphorus (mg)	48.0	14.0	13.0	18.0
Iron (mg)	0.2	0.6	0.2	0.3
Vitamin C (mg)	65.0	6.0	4.0	20.0





Waterwheel planter



17

Characteristics • USDA zones 1-8 • Doesn't sucker

- Doesn't suckerNon-invasive
- Non-invasive
- Grows in most soils
- Size depends on variety (2-10' tall/wide)
- ~50 year lifespan
- Early varieties ripen just prior to strawberries
- Later varieties ripen 2-4
 weeks later



First honeyberries I tasted in Saskatchewan, Canada, 2010





18

Soil: pH: 5.5 – 7.5

Sandy loam to clay

Spacing: 5' between plants, 10-12+' between rows





22



- than native fruit flies only affects late ripening varieties
- · pick fruit asap, close eyes & freeze

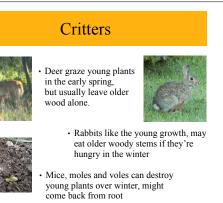


25



- earlier blooming and more susceptible than the Japanese.
- Some leaf browning is from sun and wind burn.
- Plants bounce back next year

23



26



Before and After - Kawai



21

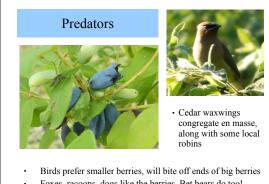
Fungus



"Phoma stem canker (in pics) was detected at the crown level. Consider if there are any ways that mechanical wounds could be occurring at this area of the stem; thus creating an entry point for disease." (U Minn Plant Diagnostic Clinic 2019)

Phytophthora root rot - detected at U of Kentucky Trial 2017





Foxes, racoons, dogs like the berries. Bet bears do too!





31



Loop It! • 6' steel posts • PVC pipe with caps • DVC pipe with caps • DVII hole through caps and loop through galvanized guide wire • Drape Plantra 17' wide net • Secure net to ground with andscapning staples Staddar Jobo credit: Deb staddar Jobo credit: Deb

29



- Bumblebees, honeybees, and even hummingbirds.
- Usually need two different, unrelated honeyberry varieties that bloom at the same time

32



Green berries grow for three weeks and then...



Loop It 2!

- 15', ½" pvc slid over electric fencer posts (similar to rebar) - Three strands of 14 gauge electric fencing wire, one on top, one on each side of the hips of the hoops, attached with zip ties. - Wires anchored by steel fence posts at each end. - 17' netting draped and attached with zip ties. - pvc pipe laid on the bottom of the netting edges to keep it from blowing around, and a few staples to secure them. - Cut the zip ties when remove netting for winter and leave hoops up. Erickson Oxhand at Bemidy, NN. photo endit Bedy Findson

30

33

Blossoms

- Buds break out in early spring, sometimes before snow melts
- Blossoms withstand freezing down to 20F/-7C
- Most varieties need a week or two for all blossoms to open
- Weather fluctuations may interrupt bloom/pollination, resulting in uneven ripening



Bagley, MN USDA zone 3



.



Blossoms are produced on new shoots off year-old wood



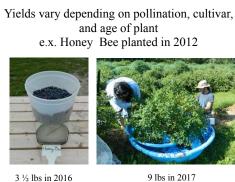


Start turning color...



Within a day berries turn purple, another day dark blue. But wait! Honeyberries need another **2-3 weeks** to sweeten and fully mature.

37



year 5

40

Removing the debris

Initially used leaf blower to blow debris out of deep container





year 6 (max yield)

Then vintage blueberry cleaning system inspired friend to design....



38

· Hand picking 3 lbs/hour · Wack branches - 20 lbs/hr

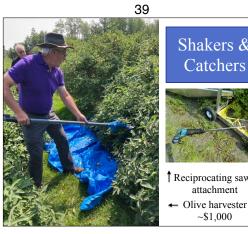
- Stick or "manure" rake!
- · Mechanical "shaker" · Tarp, drop sheet, paddling
- pool, etc.
- · Remove debris after shaking







44



Shakers & Catchers Reciprocating saw w/ attachment

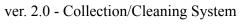
42

Is it ripe enough?

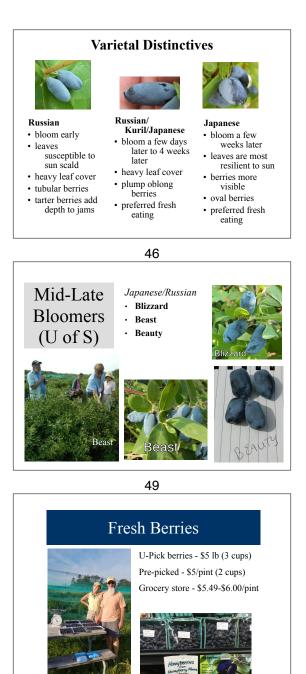
AURORA eccessesses and

• Refractometer measures soluble solids (sugars) (avg 11-16 brix)

Your taste buds will tell!



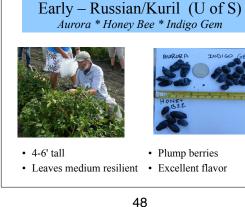


















It's a Berry Good Day at the Honeyberry Farm!



58



56

Special thanks to our Sponsor

And God said, Let Grass come up on the earth, and plants producing seed, and fruit-trees giving **fruit**, in which is their seed, after their sort: and *it was so*.

And **GF3SS** came up on the earth, and every plant producing **seed** of its sort, and every tree producing **fruit**, in which is its **seed**, of its sort: and God saw that *it was good*. (Gen. 1:11, 12)

59



57

