

# ARONIA - From Planting To Harvesting

Prepared with Aronia Eggert ( The first nursery of Aronia in Poland)

ARONIA



EGGERT



# Aronia (Chokeberry)

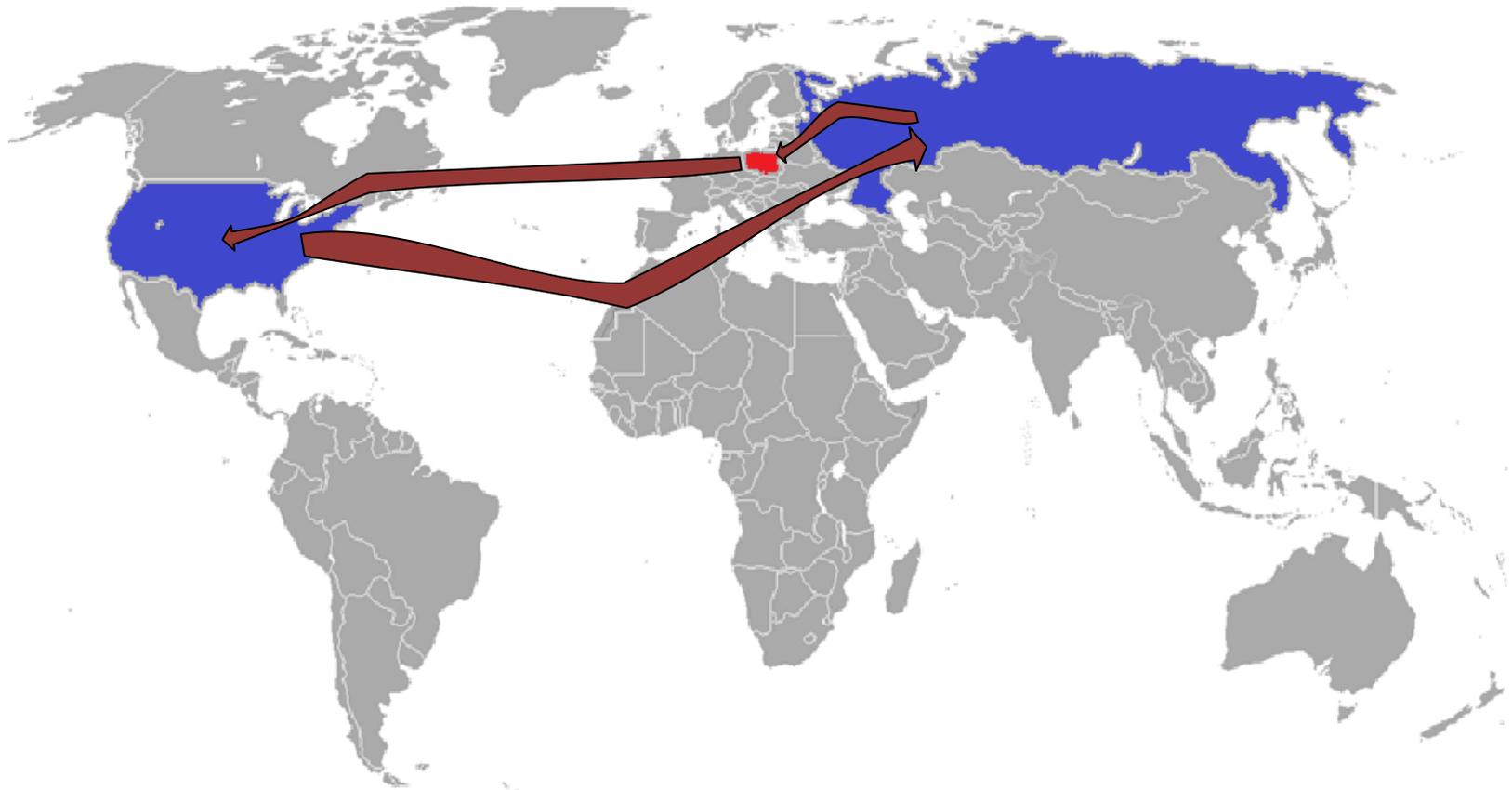
## Aronia Melanocarpa Eliot

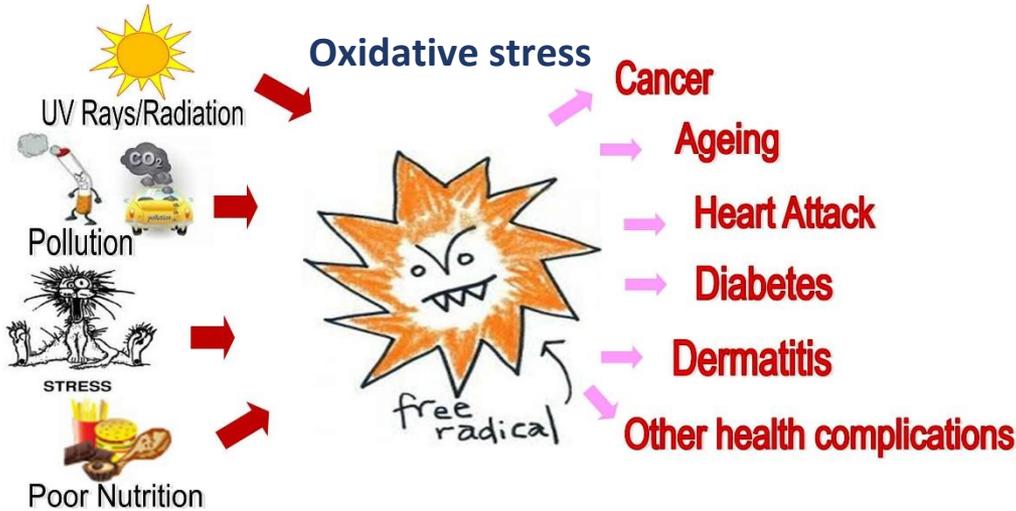
- 🌱 Origin: North America
- 🌱 Bush size: up to 2m tall (6.5 feet)
- 🌱 Flowers: are white and produced in corymbs 5-6 cm (1.9 to 2.3 Inches) of ca. 20-25 together
- 🌱 The extended blooming period starts in late May
  
- 🌱 The fruit set quickly, which almost eliminates the effect of late freeze
- 🌱 The period of fruit formation in various years is 80-90 days
- 🌱 The Aronia's fruit is black, globoid or oval, with light waxy bloom.
- 🌱 The productive period is sometimes more than 20 years.
  
- 🌱 The annual fruit yield is 10-13 tones per hectare (2.5 Acres)



# Long Way Back

Starts from North America





Aronia berries are a good source of vitamins and minerals, including:

- 🌿 Vitamin C – 137 mg/kg
- 🌿 Vitamin B – 6,7 mg/kg
- 🌿 Tocopherol – 7,1 mg/kg
- 🌿 Vitamin K – 242 µg/kg

- 🌿 Folate
- 🌿 Potassium
- 🌿 Calcium
- 🌿 Magnesium
- 🌿 Iron
- 🌿 Zinc

# Antioxidant Potential

Berry Fruits	Polyphenols (mg/100g)	ORAC (μmolTE/g)
Aronia	2080-2556	160,2
Black berries	521	62,5
Black currant	560-799	44,9-92,0
Cranberry	227-315	18,5



Reduce the risk of cancer

Help in treating radiation sickness

Lower blood pressure

Help preserve memory and efficient brain functioning

Protect skin against UV and free radicals

Are valuable in diabetic diet

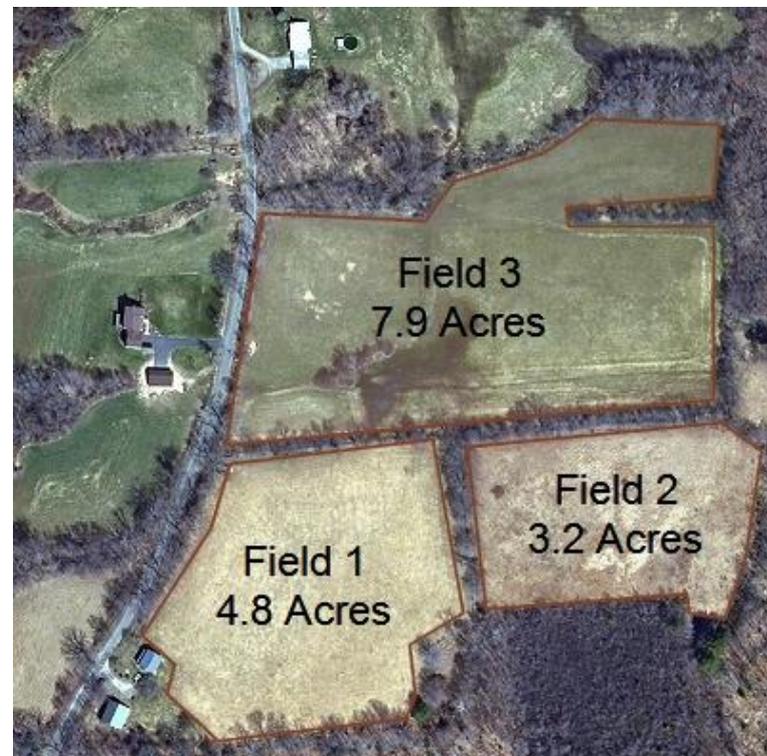
May prevent coronary heart disease



# ARONIA: Cultivation

## Choosing A Position For Cultivation

- 🌱 Aronia adapts easily to different environment conditions
- 🌱 The annual demand for water is 500-600 mm of rain
- 🌱 Successful in rich and airy soils with high water capacity
- 🌱 With adequate fertilizing and care, high yields have been also found on lower class soils



# Preparing the soil

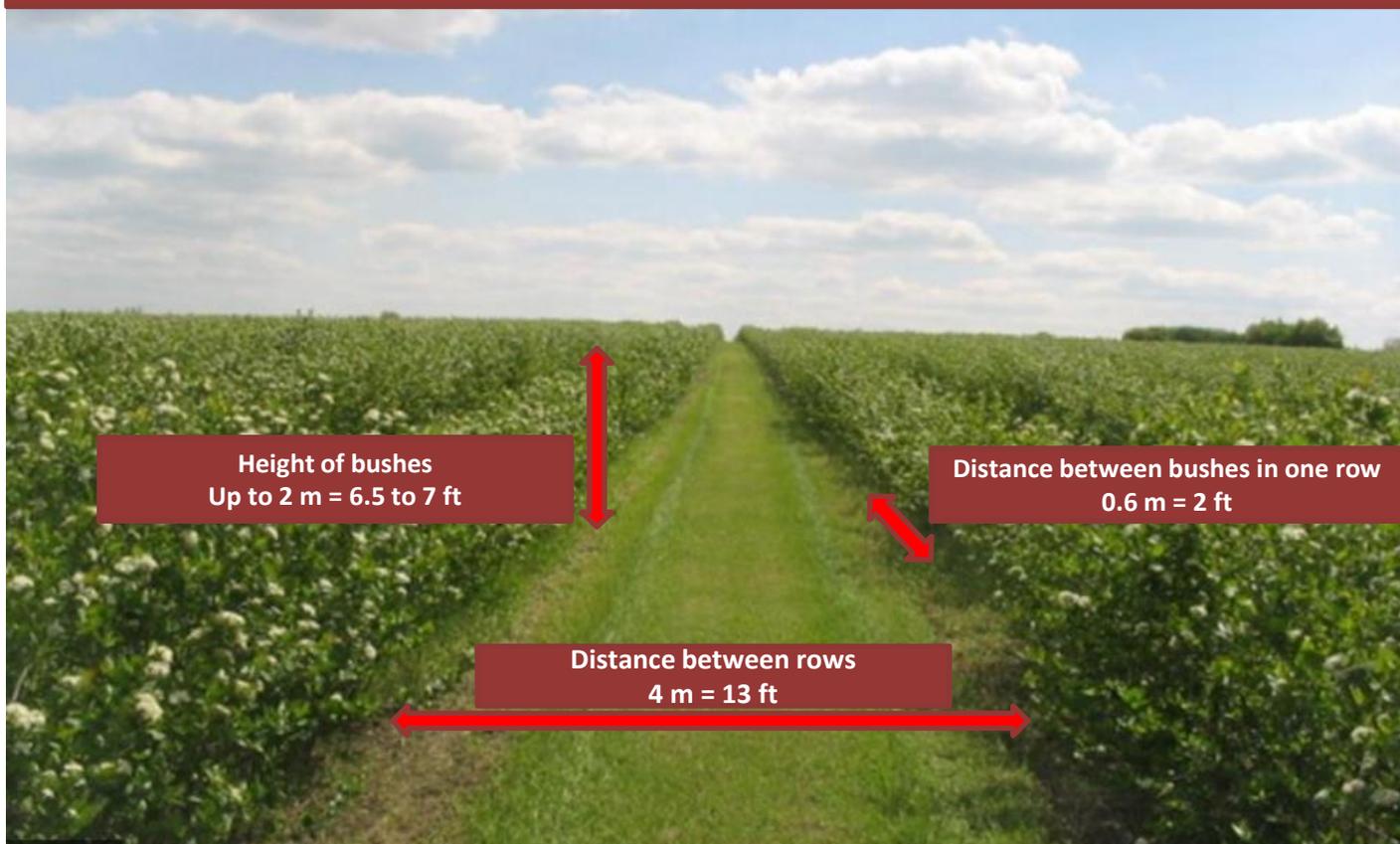
- 🌱 The area must be cleared from weeds
- 🌱 Test acidity, optimum pH: 6,5
- 🌱 Apply a soil cover with papilionaceous plants for early plough-up
- 🌱 The fundamental treatment is a deep plough
- 🌱 Soil should be tested for preparing fertilization



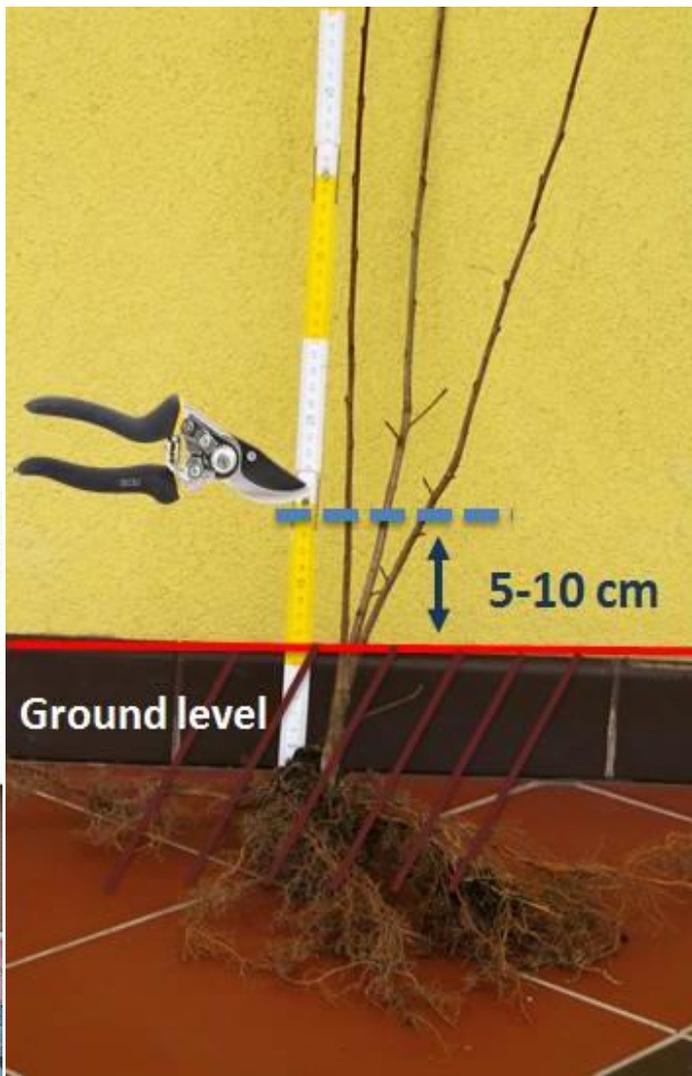
# Establishing The Plantation

- 🌱 Interval between rows min. 4m (13 feet)
- 🌱 The spacing of seedlings in a row: 0,6 m ( 2 feet)
- 🌱 Soil maintenance – black fallow

## Optimal Parameters: For Aronia Mechanical Harvester



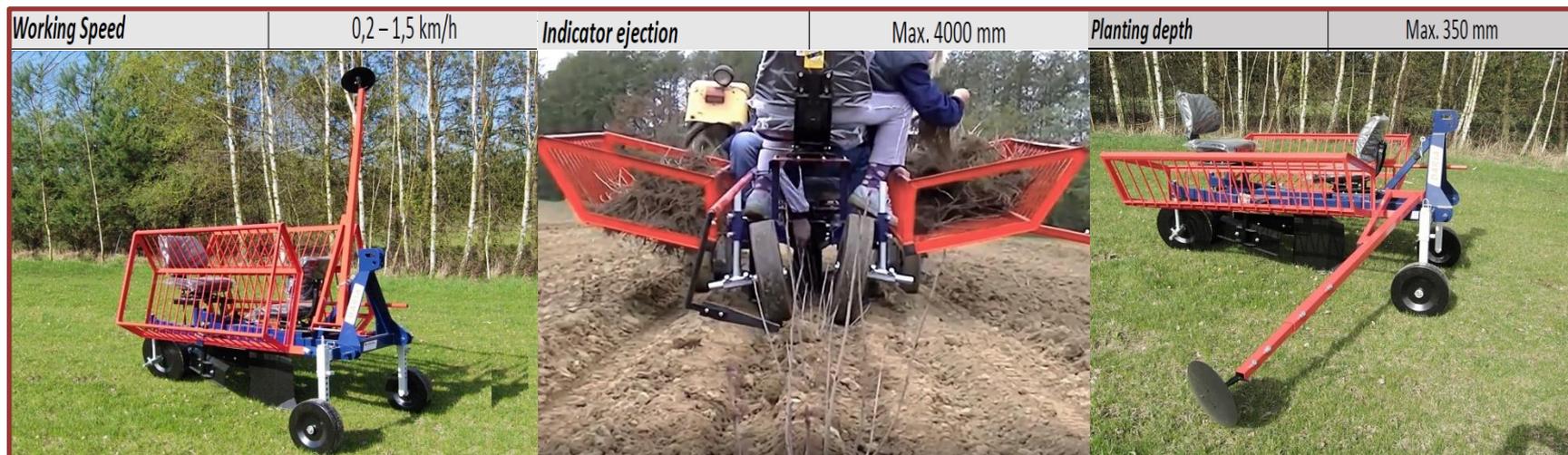
- 🌱 Two-years, or one-year seedlings
- 🌱 The seedling should be planted 3-5 cm (1.2 - 2 inches) deeper than it grew in the nursery
- 🌱 After planting cut plants 5-10 cm (2 - 4 inches) above the ground



# Planting Technique

## Berry Planter Machine- DARIA

- 🌱 DARIA berry planter is a universal machine designed for the easy and fast planting of aronia seedlings for one-row and it's suitable for other similar sized shrub
- 🌱 There's mechanical tag specifying the correct distance between plants
- 🌱 It is also possible to use replaceable coulters to adjust planting width and depth, we have the coulters size ( 160 mm to 220 mm).
- 🌱 For wider press wheels: The back wheels are adjustable in vertical and horizontal depend on the plants.



# Plant Care & Maintenance

A. Soil cultivation; B. Weed control; C. Establishing grass cover; D. Fertilization; E. Pruning

## B. Weed control

For Weed control there are different mechanical weeders for organic which help reduce or eliminate the weed under the bushes and herbicide spray beams for non-organic

### I. For ecological cultivating:

We recommend 3 weeders for young plants & mature plants

• **Young Aronia** bushes: We recommend ZUZA 3 weeder It is adapted for weeding rows up to a height of 0.5 meter the clearance of the tractor

ZUZA 3



• **Mature Aronia** bushes: Auto Inter-row weeder LUCY  
 • speed up to 3 km/h  
 • High precision weeding

LUCY



• **Mature Aronia** bushes: Finger Weeder KLAUDIA  
 • speed up to 12 km/h  
 • The finger head size is 700 mm and 540 mm with 3 different degrees

KLAUDIA



### II. Non-ecological cultivating:

• We recommend our herbicide beam sprayer TEKLA it's adapted for berry bushes such aronia, currants and others.

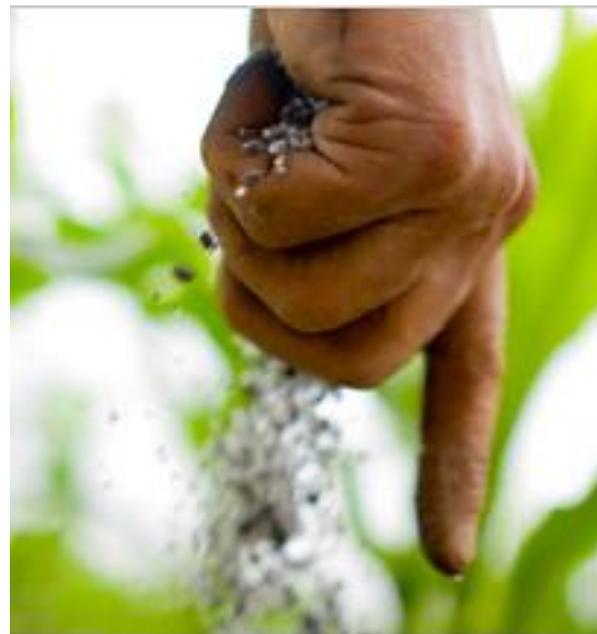
TEKLA



## D. Fertilization

-  Fertilization should be preceded by the lab tests of the soil.
-  Aronia can be fertilized using natural (organic) or mineral fertilizers
-  Natural fertilizers are dung or liquid manure
-  The estimate quantities of a pure nutrient in the fertilizer are as follows:

- P - 80 to 100 kg/ha,
- K - 100 to 150 kg/ha,
- N - 100 to 150 kg/ha



## E. Pruning

-  Prune Aronia stems and branches to encourage bushiness, cutting the shrub to 50 cm // 20 inches above the ground after it flowers. Flowering usually occurs in May or June. Prune each stem or branch just above a leaf node to avoid die-back in the plant.

### Trimmer FORMER:

is designed to prune and form rows of berry bushes into V-shaped shrubs. It is an important step in preparations for a fast and efficient collection of berry bushes with harvesters.



# Harvesting

- 🌿 In Poland, chokeberry ripens in late August
- 🌿 There is one-time harvest, when all the fruit are completely formed and well-coloured
- 🌿 Aronia fruit are persistent and can be stored unharmed in the containers even for a few days
- 🌿 Collecting by mechanical harvester
- 🌿 The productive period > 20 years.
- 🌿 The annual fruit yield is 12-15



# Harvesting



## Mechanical Harvester ARONIC/JAREK 5

Bestseller Harvester for berry growers in Europe

- 🌿 ARONIC is a harvesting machine designed to collect aronia berries, and it is a modified version of our versatile product – the half-row berry bush harvester JAREK5 with 2 shaking heads. Aronia harvesting machine ARONIC is equipped with one shaker with increased vibration energy and changed slides for shrubs.
- 🌿 The modular design allows to equip the machine with different configurations which adds high value on standard version and improves cost efficiency
- 🌿 The accuracy of the collection reaches **98%** and the amount of impurities and damaged fruit does not exceed 1%.



Play Video



Play Video



# Why We Have To Know More About Aronia?

1. Good profit for one hectare
2. Easy to leading plantation
3. There is no natural enemies
4. Great for organic farming
5. It is very healthy fruit



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