

BERRY GROWING FOR PROCESSING IN AUSTRIA

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FRUIT CONSULTING IN AUSTRIA

INTRODUCTION

- Chamber of Agriculture in Austria
Landwirtschaftskammer Österreich
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- Chamber of Agriculture in Styria
Landwirtschaftskammer Steiermark
Hamerlinggasse 3 in Graz
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- Fruit Consulting
Department of Fruit Growing
Kern Team – Landwirtschaftskammer Steiermark
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- Industrial Berry Consulting as a part of „Kern Team“
 - Hutter Peter
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 - Robitschko Rudolf
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FACTS

- Elderberry
Acreage: 780 ha
Farms: 250
Volume: 4.500 to
Trend: increasing
25% organic production
- Aronia
Acreage: 450 ha
Farms: 40
Volume: 500 to
Trend: decreasing
90% organic production
- Black currant
Acreage: 200 ha
Farms: 80
Volume: 300 to
Trend: decreasing
95% organic production



BLACK CURRANT

PLANTATION



BLACK CURRANT

VARIETIES

- Titania
- Tisel
- Tines
- Ben Hope
- Gofert



BLACK CURRANT

PESTS

- Winter moth (*Operophtera brumata*)
- Mulberry Scale (*Pseudaulacaspis pentagona*)
- Spongy mouth (*Lymantria dispar*)
- Gall mite (*Cecidophyopsis ribis*)
- Blackcurrant aphid (*Aphis schneideri*)



BLACK CURRANT

DISEASES

- Powdery mildew
- White Pine Blister Rust (*Cronartium ribicola*)



BLACK CURRANT

PHYSIOLOGICAL STRESS

- Sunlight- and heat damages



ARONIA

PLANTATION



ARONIA

VARIATIES

■ Nero



ARONIA

PESTS

- Mulberry Scale (*Pseudaulacaspis pentagona*)



- Spongy mouth (*Lymantria dispar*)



- Spotted wing drosophila (*Drosophila suzukii*)



ARONIA

PHYSIOLOGICAL STRESS

- Bursting of berries



BLACK CURRANT/ARONIA

WEED CONTROL



BLACK CURRANT/ARONIA

HARVEST



ELDERBERRY

PLANTATION



ELDERBERRY

VARIATIES

- Haschberg
- Kornberg
- Rubin
- Preding
- Tatin
- Blochwitz



ELDERBERRY

PESTS

- Gall mite (*Eriophyoidea*)
- Spider mite
- Elder aphid (*Aphis sambuci*)
- Spotted wing drosophila (*Drosophila suzukii*)
- Vole (*Arvicolinae*)
- Field mouse (*Apodemus*)



ELDERBERRY

DISEASES

- Phoma/Alternaria



- Botrytis



- Colletotrichum



ELDERBERRY

HARVEST - FLOWER



ELDERBERRY

HARVEST - BERRIES



IMPACT IN BERRY GROWING FOR PROCESSING MARKET CHANGE

- Non concentrated juice
- Regional origin and regional processed
- Organic cultivation
- Zero pesticide residues
- Premium products
- Controlled cultivation
- Farm cooperatives



IMPACT IN BERRY GROWING FOR PROCESSING STRUCTURAL CHANGE

- Farm successors
- Part-time farmers
- Family farms
- Availability of workers (seasonal workers)



IMPACT IN BERRY GROWING FOR PROCESSING POLITICAL CHANGE

- Regulation for GAP
- Environmental measures
 - Pesticides registration process
 - Nutrient level in ground water
 - Permit for Irrigation
- Temporary seasonal labour
 - Minimum wage costs
 - Incidental wage costs
 - Official registration
 - Permit for seasonal workers



IMPACT IN BERRY GROWING FOR PROCESSING CLIMATE CHANGE

- Warm winter periode
- Early start of growing
- Spring frost (2016, 2017, 2024)
- Extreme weather events (heavy rain, hail, etc.)
- High temperature during summer time
- Early harvest



THANKS FOR YOUR ATTENTION.



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