

Arsenal.



Processing

Arsenal is a high yielding maincrop crisping variety with extensive resistances to potato cyst nematodes.

- ▶ **Duel PCN resistance and tolerance**
- ▶ **High yielding**
- ▶ **Good virus resistance**



characteristics

General characteristics

Breeder: Agrico Research B.V.
 Crossing: AR 92-1146 x SILVESTER
 Breedersright: 31-12-2040
 Seedling: AR 98-0851

Plant and tuber characteristics

Maturity: early maincrop / 5,5
 Light sprout colour: blue violet / BV
 Flower colour: white / W
 Number of berries: very high / 4
 Foliage - initial development: average / 6,5
 Foliage - final development: average / 7
 Foliage - firmness: quite firm / 7
 Foliage - selectability: average / 6,5
 Skin colour: yellow / Y
 Flesh colour: light yellow / 6
 Skin finish: quite poor / 5
 Tuber shape: round oval / RO
 Regularity of tuber shape: quite regular / 6,5
 Tuberisation: quite high / 7
 Tuber size: quite large / 7
 Regularity of size: quite regular / 6,5
 Dormancy: quite short / 5

Sensitivity and quality

Secondary growth: slightly sensitive / 7
 Black spot (internal bruising): quite sensitive / 6
 Growth cracks: sensitive / 5
 Harvest damage: slightly sensitive / 7
 Metribuzin - pre-emergence: slightly sensitive / 7,5
 Metribuzin - post-emergence: slightly sensitive / 7,5
 Bentazon: slightly sensitive / 7,5
 Ethylene: - / -
 Underwater weight: 447
 Dry matter content: 24%
 Cooking type: floury / BC
 Discolouration after cooking: quite sensitive / 6
 Raw discolouration: quite sensitive / 6,5
 Fries quality: very good / 7,5
 Dry matter distribution: good / 7,5
 Crisping quality: good / 7
 TGA-level: 4,1
 Carvone oil: 15% to 25% more tubers / 7
 Dormancy: quite short / 5



How to grow

Fertilization and seed treatment ¹

Nitrogen: standard advice.

Phosphate: standard advice.

Potassium: standard advice + 10%.

Seed treatment

Proper pre-sprouting after taking off the top sprout can give a positive result on the tuber set. Desprouting more than once can have a negative impact on yield and size regularity.

Planting distance

28/35 mm: 25 cm (54.000 plants/ha)

35/50 mm: 30 cm (45.000 plants/ha)

Weeds

A standard use of metribuzin (Sencor), before or after emerge, can give some foliage reaction, but rarely any yield reduction.

Fungicides

A strict preventive spraying schedule against late blight is necessary.

Harvest

Due to its sensitivity scores for black spot and/or harvest damage, wait at least three weeks after haulm killing before harvest.

Storage temperature - Storage time

For processing purposes, do not store below 9 °C. Suitable for medium term storage.



Resistances

Virus - Leaf roll: - / -

Virus - Yn: slightly to not susceptible / 8

Virus - Yntn (tuber): slightly susceptible / 6,5

Spraing: slightly susceptible / 7

Late blight - foliage: very susceptible / 4,5

Late blight - tuber: susceptible / 5,5

Fusarium: susceptible / 5

Common scab: susceptible / 5

Powdery scab: slightly to not susceptible / 8

Virus - A: - / -

Say potato,
say **Agrico.**

Virus - X: slightly susceptible / 7

Black dot: - / -

Erwinia: slightly susceptible / 7

Wart disease F1: resistant / 10

Wart disease F6: - / -

Wart disease F18: - / -

Golden nematode Ro 1/4: resistant / 9

Golden nematode Ro 2/3: field resistant / 8

Golden nematode Ro 5: moderately susceptible / 6

White nematode Pa 2: resistant / 9

White nematode Pa 3: field resistant / 8