

Arsenal.

(AR 92-1146 x SILVESTER)



Market Outlet:
Crisping & Processing

General

Arsenal is a crisping variety with PCN Pallida resistance, yellow skin colour and light yellow flesh. The tubers are round oval, medium sized and have moderate shallow eyes, producing good tuber numbers of uniform size. The dry matter content is relatively high and crisp quality is good. It has good cooking and frying qualities. Arsenal is suitable for cultivation in most soil types but is rather susceptible to common scab. Regular irrigation will ensure uniformity of growth, and even yield performance which prevents growth cracking. Under normal crop rotation, growing Arsenal can significantly reduce the level of G. Pallida in the soil. Trial results suggest it does not suffer a significant yield penalty if planted into untreated infested land, but at the same time it responds well in conjunction with a nematicide program.

Maturity

Maincrop

Cultivation

In order to get a rapid initial development pre-sprouting (chitting) is advisable. Removal of sprouts more than once, and planting directly from cold storage can have a negative effect on tuber numbers and yield. Planting distance for 35/55mm is approximately 30cm (45,000 plants per Ha). Use of Metribuzin (eg. Sencorex) may result in discolouration of foliage but does not effect yield. Arsenal has slow initial development and a good soil coverage. The foliage is generally strong. Foliage destruction should be done carefully and it takes approximately 3 weeks for the skin to set.

Fertiliser Treatment Suggestions

It is recommended to give a little less Nitrogen than standard, but extra Potassium can improve tuber numbers.

Storage

Arsenal has a good dormancy and therefore is suitable for longer storage at approximately 8°C. **Do not treat with any chemical that contains Chloropham as Arsenal is extremely sensitive to it!**

Resistance

Arsenal is slightly susceptible to Common Scab and Tuber Blight. Resistance to Powdery Scab, Spraing and Virus Yn is good. Arsenal is resistant to Wart Disease fysio 1, PCN Pa2 & 3 and Ro1, 2, 3 & 4.

Agronomic Information

Scoring (1= low / poor, 9= high / excellent)

Crisping

Average Yield 7

Disease Resistance

Quality

Tuber Shape Round Oval

Uniformity of shape 7

Eye Depth 7

Skin Colour Yellow

Flesh Colour Pale Yellow

Dry Matter (%) 23.2

Foliage Blight 5

Tuber Blight 4

Alternaria (Early Blight) 6

Common Scab 5

Powdery Scab 8

Virus Y 8

Virus Yntn 6

Virus A

Virus X

Spraing 8

Silver Scurf

Fusarium (Dry Rot) 6

PCN—Ro1, 2, 3 & 4 Resistant

PCN—Pallida (Pa2=9, Pa3=8)

Wart Disease Resistant

Leaf Roll Virus

Blackleg 4

Agronomy

Dormancy 7

Foliage Maturity 5

Tuber Number (score) 6.5

Resistance to damage 7

Resistance to bruising 7

Secondary Growth 7

Flower Colour White

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