





OUTSTANDING QUALITIES

- **♦ IDEAL FOR OPEN FIELD PRODUCTION**
- BRIGHT RED, BLOCKY FRUIT
- EXCELLENT YIELD POTENTIAL
- RESISTANCE AGAINST BACTERIAL SPOT AND TOMATO SPOTTED WILT VIRUS

Autry* is a widely adapted, hybrid blocky pepper for production in the open field. **Autry*** yields fruit of outstanding quality in the open field. The fruit is uniformly blocky, approximately 10 x 10 cm and ripens to a uniform bright red that is suitable for pre-packing and bulk packaging. Fruit set is concentrated, resulting in high first pick yields. **Autry*** has resistance against Tobacco mosaic virus and intermediate resistance Tomato spotted wilt virus and Bacterial spot race 0 - 10 (Xcv 0 - 10). The yield is good throughout a long growing season.

SPECIAL VARIETAL REQUIREMENTS

- · Autry* is a medium compact plant. We, therefore, suggest that plants are trellised for open field production
- As fruit set can be concentrated, we suggest that flowers of the 1st and 2nd bottom splits are removed

CHARACTERISTIC*	AUTRY*
KIND	F1 hybrid pepper (Capsicum L.)
TYPE	Blocky, California Wonder type
MATURITY	Early from 70 days after transplant
FRUIT DIMENSIONS	Approximately 11 x 11 cm (app. 200 - 260 g)
FRUIT SHAPE	Very uniform blocky
FRUIT WALL	Thick
SMOOTHNESS	Smooth surface with shallow lobes
FRUIT COLOUR	Dark green turning bright red
PLANT TYPE	Medium compact
DISEASE REACTION (SCIENTIFIC)	High resistance: Tobacco mosaic virus (Tm0) Intermediate resistance: Tomato spotted wilt virus (TSWV), Xanthomonas campestris pv. vesicatoria races 0 - 10 (Xcv 0 - 10)
PRODUCTION	Open field
POPULATION GUIDE	Open field: 20 000 – 35 000 plants per ha
USE	Pre-packing and bulk packaging
SPECIAL FEATURES	Concentrated fruit set in beginning

^{*} Characteristics given are affected by production methods such as soil type, nutrition, planting population, planting date and climatic conditions. Please read disclaimer.

Disclaimer: This information is based on our observations and/or information from other sources. As crop performance depends on the interaction between the genetic potential of the seed, its physiological characteristics, and the environment, including management, we give no warranty express or implied, for the performance of crops relative to the information given nor do we accept any liability for any loss, direct or consequential, that may arise from whatsoever cause. Please read the Sakata Seed Southern Africa (Pty) Ltd Conditions of Sale before ordering seed. Resistance: is the ability of a plant variety to restrict the growth and development of a specified pest or pathogen and/or the damage they cause when compared to susceptible plant varieties under similar environmental conditions and pest or pathogen pressure. Resistant varieties may exhibit some disease symptoms or damage under heavy pest or pathogen pressure (HR = High resistance).

* Experimental: This variety does not appear on the current South African Variety list, but has been submitted for registration. Recent version: Kindly contact Sakata or Area Representative for the most recent version of this Technical Bulletin.











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GENERAL TIPS FOR SWEET PEPPER PRODUCTION

Climatic requirements

- Peppers grow best when relative humidity (RH) is 65 75 %
- Maintain good ventilation (0.5 m/s) to keep conditions favourable for transpiration
- Pepper plants need good light (1 100 1 300 μs/m² or 60 000 lux). Heavy shade can induce stress, but light shade stimulates growth
- The ideal temperature is around 18°C (minimum) and 25°C (maximum)
- Temperatures lower than 15°C result in very poor growth
- Temperatures higher than 28°C induce stress

Blossom end rot (BER)

Causes

- Genetic. Varieties differ in their tolerance to this disorder
- BER is usually associated with a localised calcium (Ca) deficiency in the blossom end of young fruit
- High relative humidity limits transpiration and therefore Cauptake
- Low humidity may cause BER as water, with dissolved nutrients flow to leaves and not to fruit
- BER incidence increases when the ratio ppm N-NO₃: ppm N-NH₄ is < 5:1
- High salinity increases BER

Control

- Remove affected fruit as soon as symptoms are visible
- Choose varieties which are less sensitive to BER
- Reduce stress (temperature, light intensity, salinity, etc.)Control RH to < 90 % and maintain good ventilation to
- ensure transpiration and uptake of Ca
 Calcium based foliar spray may help to reduce BER after
- Calcium based foliar spray may help to reduce BER after periods of humid, cloudy weather
- Well balanced nutrient solution

Powdery mildew

In the production of sweet peppers Powdery mildew is the most common disease and of vast economic importance. The only effective way to control Powdery mildew is to have a holistic approach in the production of sweet peppers.

Conditions that encourage the growth of Powdery mildew include temperatures of 15.5 - 27°C. Powdery mildew spores can survive at temperatures as low as 4°C, under low light intensity and have the ability to germinate in the absence of water.

Conditions that suppress disease development include water on the plant surface for extended periods of time, day temperatures above 32°C and night temperatures above 18°C, direct sunlight and high pH conditions on the leaf surface.

Flat fruit

Causes

- The occurrence of short-blocky or flat fruit is common for some varieties under high temperature conditions
- Low temperatures can cause flat fruit as fertilisation does not take place when the temperature is too low
- Incidence of short blocky fruit increases with high Nconcentration in the nutrient solution

Control

- Select varieties suited to the environmental conditions
- Control greenhouse temperature to 18 30°C, or produce during a cooler time of year
- Keep the ratio ppm N-NO₃: ppm N-NH₄ to around 5:1 and limit the N-NH₄ concentration to < 32 ppm

Variety choice

- Know the market preferences resize, colour, fruit quality, packaging etc.
- Know the climate of the area and the greenhouse (rainfall, temperature, humidity, ventilation and air circulation)
- Know which diseases are prevalent in the area and when they occur most commonly
- Get as much information as possible about each variety
- Each variety has its own requirement regarding ideal climate, trellising method, growth habit and disease resistance. Spread the risk by planting more than one variety.

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