

# **OUTSTANDING QUALITIES**

- **♦ SEMI-BUSH TYPE**
- ◆ STRONG, VIGOROUS GROWER
- THICK FLESHED WITH A SMALL SEED CAVITY
- STORES VERY WELL

**Nelson** is a very early maturing semi-bush type grey-skin pumpkin hybrid with very good internal quality. An advantage of planting a semi-bush variety such as **Nelson** is that mechanical weed control is possible until late in the season and they have a shorter production cycle compared to vining types. **Nelson's** plants are vigorous and each plant can be expected to produce about 1 to 2 fruits. The fruit shape is similar to Crown Prince and the flesh is thick, deep orange in colour and very firm. The fruit is medium-sized (3 - 5 kg) and smooth. Due to **Nelson's** internal quality and smooth surface, the fruit is ideal for processing.

# SPECIAL VARIETAL REQUIREMENTS

- We suggest a plant population of 6 000 plants per hectare as fruit size decreases at higher plant populations
- Nelson can be stored for up to 3 months under controlled conditions

CHARACTERISTIC*	NELSON		
KIND	F1 hybrid pumpkin (Cucurbita maxima Duchesne.)		
TYPE	Grey-skinned pumpkin		
MATURITY	Very early (80 - 90 days in mid-summer and 90 - 100 days in cool seasons from direct sowing)		
SEASON	Widely adapted for production after danger of frost has passed		
PLANT TYPE	Vigorous semi-bush		
FRUIT SHAPE	Medium deep		
FRUIT SIZE	Medium, 3 - 5 kg		
FRUIT RIBBING	Slight		
FRUIT FLESH	Thick and even, firm texture		
FLESH COLOUR	Deep orange		
RIND COLOUR	Light grey		
SEED CAVITY	Small		
STORAGE ABILITY	Good		
UNIFORMITY	Good		
POPULATION GUIDE	6 000 final stand per ha		
MARKETS / END USE	Fresh market and processing		
SPECIAL FEATURE	Semi-bush type plant, very good internal quality		

<sup>\*</sup> Characteristics given are affected by production methods such as soil type, nutrition, planting population, planting date and climatic conditions. Please read disclaimer.

WARNING: VARIETY PROTECTED UNDER PLANT BREEDERS RIGHTS. UNAUTHORIZED MULTIPLICATION AND/OR MARKETING OF SEED PROHIBITED.

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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# Nelson

F1 Hybrid Grey Pumpkin



# **GENERAL TIPS FOR PUMPKIN PRODUCTION**

### Soil Requirements

Pumpkins produce best on well-drained, fertile soil. The plants produce large, shallow root systems very rapidly in the top 20 - 25 cm of soil, which should be prepared into a firm, well-fertilised seedbed. Squash and pumpkins do well in soils where 25 - 30 tons of well-rotted manure have been applied per hectare. To help avoid soil-borne disease problems, select fields that have not had other vine crops, tomatoes or peppers for at least three years.

As far as soil acidity is concerned, cucurbits are moderately sensitive to acidic soils. Good results can be expected over a range of pH values extending from 5.5 - 7.5 (H<sub>2</sub>0). If the soil pH is lower than 5.5, dolomitic lime should be applied in accordance with the analytic findings. Lime should be ploughed in four weeks or more before the planting season.

#### Examination of the soil

The ideal soil depth for cucurbits, particularly pumpkins, is 900 mm and deeper. These crops should not be cultivated on soils less than 450 mm deep. The highest concentration of roots is found in the top 300 mm of soil. Tillage banks and impenetrable layers occurring at less than 450 mm should be broken with a sub-soiler.

The fertiliser and lime requirements are determined by laboratory analysis of a representative soil sample. In view of the fact that lime should be applied at least 4 - 8 weeks before planting the soil sample should be submitted for analysis as early as possible. Disregard of the lime requirement can be the cause of a severe reduction in yield.

## Clean cultivation

The field should be clean cultivated for 6 - 8 weeks before planting. This practice controls cutworms by the removal of host plants from the field and also facilitates weed control. Organic material usually decomposes during this period, therefore preventing a nitrogen negative period after planting.

## **Crop rotation**

The main purpose of a rotational system is to combat soilborne diseases and pests associated with specific crops. Systems are often designed to include a green-manure crop in order to increase the organic content of soil.

Cucurbits may follow any unrelated vegetable in a rotational system. The potato is an exception as there is some evidence that certain *Fusarium* species attack both cucurbits and potatoes. Grasses or grain crops, such as oats in the Western Cape and Babala in the hot areas of the Limpopo Province, are the most suitable green-manure crops. Nematodes or any of the diseases associated with vegetable crops do not generally attack them. These crops should be ploughed in while they are still green and at least 8 weeks before planting.

## Protection against sunburn

Varieties with dark-skinned fruit are highly susceptible to sunburn. The most effective protection is obtained when the fruit is totally covered by foliage, which is brought about by the application of sound production practices. Branches, straw, chaff, etc. can also be used to cover fruit but this practice is labour intensive and not very effective in windy areas

#### Prevention of disease

Diseases can be prevented to a large extent by the following:

- Rotational cropping
- Use of disease-free seed
- Good drainage
- Regular inspections and an effective spray program
- Planting time
- Planting against the wind direction

## Prevention against wind damage

Developing pumpkin and squash fruit have thin, sensitive skins that damage and mark easily. These permanent marks negatively affect the price of the final product, e.g. Crown Prince for export, Gemini for baby gems, etc. Many producers are therefore growing windbreaks to reduce wind damage.

Plant spacing guide: Distance between plants in the row:

Between row spacing	Plant population		
	6 000	7 000	8 000
1. 60 m	104 cm	89 cm	82 cm

### Susceptibility definition:

Susceptibility (S) is the inability of a plant variety to restrict the growth and development of a specified pest or pathogen.

# **Tolerance definition:**

Tolerance (T) is the ability of a plant variety to endure **abiotic stress** without serious consequences for growth, appearance and yield. Vegetable companies will continue to use tolerance for abiotic stress.

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