

OUTSTANDING QUALITIES


- ◆ DIPLOID ALL SWEET
- ◆ EARLY MATURITY
- ◆ 10 – 12 KG FRUIT
- ◆ VIGOROUS GROWTH HABIT
- ◆ GOOD INTERNAL QUALITY

Daytona is an early maturing All Sweet type F1 hybrid watermelon, with excellent yield potential. Fruit is uniform, short oblong in shape and weighs 10 - 12 kg. The medium-thick rind is tough, making it highly suitable for long-distance shipping. Rind colour is dark green with thin lighter green stripes. **Daytona's** flesh is bright red, firm, crispy, juicy and has an excellent taste and a high Brix level of about 11 - 12 %. **Daytona** tends to resist sunburn and has high resistance to Anthracnose (Co).

SPECIAL VARIETAL REQUIREMENTS

- Suggested plant populations of up to 6 000 plants per ha

CHARACTERISTIC*	DAYTONA
KIND	F1 hybrid watermelon (<i>Citrullus lanatus</i> (Thunb.) Matsum. et Nakai)
TYPE	Diploid All Sweet
MATURITY	Early (80 - 90 days from sowing in the warm season)
GROWTH HABIT	Trailing
PLANT VIGOUR	Strong
SEASON	Spring to summer production
FRUIT WEIGHT	10 - 12 kg
FRUIT SHAPE	Short oblong
INTERNAL FLESH COLOUR	Bright red
FRUIT DIMENSION	25 - 30 x 40 - 45 cm
RIND QUALITIES	Dark green background with lighter green stripes
BRIX	Very high, 11 - 12 %
FLAVOUR	Excellent
UNIFORMITY	Very good
LEAF COVER	Very good
DISEASE REACTION (SCIENTIFIC)	High resistance: <i>Colletotrichum orbiculare</i> (Co)
MARKETS / END USE	Fresh market
POPULATION GUIDE	6 000 final stand per ha (80 - 100 cm in row, 1.6 - 2 meter between rows)
SPECIAL FEATURES	Tends to resist sunburn

* 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, IR = Intermediate resistance).

* **Experimental:** This variety does not appear on the current South African Variety list, but has been submitted for registration.

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GENERAL TIPS FOR WATERMELON PRODUCTION

Climatic requirements

Watermelons are warm season plants and grow best at 21 - 32°C. The optimum growth temperatures at night are 18 - 20°C, and during the day 24 - 30°C. Optimum temperatures for fruit ripening are between 15 - 25°C. The optimum soil temperatures are between 21 - 25°C, whereas the optimum air temperatures for growth are between 20 - 35°C.

Temperatures below 0°C will kill the plants, and below 12°C growth virtually stops. Temperature above 40°C will suppress the total number of flowers. The seed will germinate and emerge within 4 - 6 days at a soil temperature of 25°C and within 6 - 12 days at 20°C. Watermelon seed does not germinate well at soil temperatures below 16°C.

Water requirements

Irrigation has a pronounced effect on both yield and quality of melons. Beds must be watered to a depth of 1 m before planting. Depending on the soil type and season, 18 - 25 mm water must be applied weekly after emergence. **Avoid regular light irrigations.** The best time to irrigate is during crop development. Limit irrigation when the fruits approach ripening. **Excessive moisture at ripening will cause internal decay, lower sugar content and fruit bursting.**

Nutrition

The rate of uptake of nutrients varies with growth stages, namely germination, early runner, first flower, fruit expansion, and fruit ripening. Post-plant fertiliser applications need to be split to supply to the varying demands by the plants through the different growth stages. It's necessary that fertilisers are applied continuously through the development of the crop in the irrigation water.

The availability of Ca and Mg during the fruit expansion phase is crucial. These nutrients must be applied in irrigation water even if the soil analyses indicate that it is present in adequate amounts. Weekly foliar sprays of Ca and Mg from fruit set to harvest may ensure the best fruit quality.

Bees and pollination

Melon plants have separate male and female flowers on the same plant. Female flowers are only open for one day and need to be visited by bees several times to enable fruit set. Bees are the main pollinators and must therefore be placed as close as possible to the field. Poor pollination results in reduced yields and an increased percentage of misshapen fruits. Check blooming fields late morning on sunny, warm days – if there is minimal bee activity, it is recommended to provide beehives. One strong colony of bees per 4 - 5 hectares is normally sufficient. If an insecticide application is required on the melon crop or nearby fields, do it late in the afternoon when the bee activity has ceased. Place beehives up wind from the field in order to limit the possibility of insecticide drift. Apply insecticides carefully during flowering.

Disease resistance definition

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. Two levels of resistance are defined:

High/standard resistance (HR): plant varieties that highly restrict the growth and development of the specified pest or pathogen under normal pest or pathogen pressure when compared to susceptible varieties. These plant varieties may, however, exhibit some symptoms or damage under heavy pest or pathogen pressure.

Moderate/intermediate resistance (IR): plant varieties that restrict the growth and development of the specified pest or pathogen, but may exhibit a greater range of symptoms or damage compared to resistant varieties. Moderately/intermediately resistant plant varieties will still show less severe symptoms or damage than susceptible plant varieties when grown under similar environmental conditions and/or pest or pathogen pressure.

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