

Introduction

Tomato production in Kenya has increased considerably in the recent past with greenhouse production being adopted in many areas. The tomato (*Lycopersicon esculentum*) is popular with both small and large scale farmers for its edible fruits both for export and local consumption.

Monsanto hybrids rank highly amongst the reputable brands associated with tomato production in the country.

Tomato Anna F1 (Hybrid Tomato Anna) is an indeterminate hybrid bred and developed by the Monsanto Vegetable Seeds division for greenhouse production.

Tomato Anna F1 - Hybrid Tomato Anna

Features of Anna F1

■ It is a fresh market variety that does very well in the greenhouse, but can also do well in open field.

■ The fruit is deep red, firm and oval shaped.

■ Tomato Anna F1 has High Resistance to *Alternaria* stem canker, *Verticillium*, *Fusarium* wilt as well as nematodes.

■ Maturity is 75 days from transplanting.

■ The yield is approximately 74tons/acre (80-90kg/m²) with an average of 35 kg per plant in its life span.



Growing Instructions

For a successful crop of Anna F1 tomatoes the grower needs to diligently observe certain practices at each stage:

1. Field Selection

- Consider previous planted crop. As general rule, farmers should observe at least a 3-season break from tomato, pepper, potato or any other crop from the solanaceous family. This is done to avoid disease cycles and ensure less cost in disease management.
- Check the irrigation water quality. Excess sodium and fluoride may affect proper plant growth.
- Check water availability particularly if you intend to use irrigation.
- Ideally, the land should be gentle sloping to facilitate drainage.

2. Soil environment

- Tomatoes can grow in a variety of soil types; they do best in well-drained, deep, uniform clay or silty loams. The soil should be loose, deep and of correct structure because tomato Anna F1 has a root system of more than 60 cm depth.
- The optimum pH for tomato production is between 6-7.5.
- In coming up with a fertilizer program the grower can carry out a soil analysis.

3. Land preparation

- Proper land preparation is necessary to loosen soil and break hard pans or compacted fields. During land preparation, 8 tons of farm-yard manure per acre can be incorporated into the soil to improve its structure, this will in turn improve soil aeration and water penetration.
- In nematode infested areas, fumigation can be done with registered products.
- In soils whose pH is low; lime can be applied to raise the pH. For alkaline soils, gypsum can be used to reduce soil pH; it is also handy in sodium-level reduction.
- Planting on beds is recommended for low-lying areas with high run-off. Raise the soil 15cm high with walkways of 30cm between the beds. Lay drip lines with the nozzles facing up.

4. Seed requirement

- Tomato Anna F1 is sold in seed counts and is available in leading stockists in all the regions of the country.
- In calculating seed requirement, the amount of seed will be determined by the spacing that will be used. A plant density of 3 plants per metre squared is recommended for most regions. The grower should plant about 15 percent more seeds in their nursery to cater for the seedlings that will be used for gapping.

5. Nursery management

- Soil nursery method as well as trays can be used for growing seedlings. In the soil

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J Dewey



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Early Site Permit (ESP) at the North Anna ESP Site, 2006 **National Association of Broadcasters Engineering Handbook** Graham A. Jones, David H. Layer, Thomas G. Osenkowsky, 2013-04-26 The NAB Engineering Handbook provides detailed information on virtually every aspect of the broadcast chain from news gathering program production and postproduction through master control and distribution links to transmission antennas RF propagation cable and satellite Hot topics covered include HD Radio HDTV 2 GHz broadcast auxiliary services EAS workflow metadata digital asset management advanced video and audio compression audio and video over IP and Internet broadcasting A wide range of related topics that engineers and managers need to understand are also covered including broadcast administration FCC practices technical standards security safety disaster planning facility planning project management and engineering management Basic principles and the latest technologies and issues are all addressed by respected professionals with first hand experience in the broadcast industry and manufacturing This edition has been fully revised and updated with 104 chapters and over 2000 pages The Engineering Handbook provides the single most comprehensive and accessible resource available for engineers and others working in production postproduction networks local stations equipment manufacturing or any of the associated areas of radio and television Handbook of Differential Scanning Calorimetry Joseph D Menczel, Janusz Grebowicz, 2023-02-22 Differential scanning calorimetry DSC is the most important thermal analysis technique used today and the most common thermal analysis instrument found in chemical characterization laboratories DSC has become an everyday tool in characterization laboratories but many researchers using this technique have a limited understanding of the true breadth of its capabilities Up to now there has been no book that would describe the application of DSC in all the various areas of materials chemistry The Handbook of Differential Scanning Calorimetry has been written to fill that void This book is designed to summarize the knowledge of differential scanning calorimetry so that materials researchers and application chemists are given both a better understanding of techniques as well as a review of the full scope of its capabilities It also discusses how to properly interpret the DSC thermograms data obtained Included in this work is the most up to date information written by some of the leaders in the field It is written not only to help users get the most out of their equipment After reading this book people in all chemical and biological areas will have a broad overview of this measuring technique and will be able to utilize this analytical technique more efficiently Provides a detail description of the theory behind differential scanning while simultaneously providing a wider breadth of understanding of the actual DSC technique Includes a review of the basics of heat flux and power compensation DSC s as well as separate chapters on inorganic and organic materials Reviews the most common commercial DSC instruments on the market and their uses including TA Instruments Perkin Elmer Hitachi Mettler Toledo Netzsch and Setaram *The Cumulative Book Index*, 1980 A world list of books in the English language *Catalogue of All Books in the Circulating and Reference Departments of the Public School Library*,

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