

IDENTIFICATION OF FRUIT TREES AND VARIETIES

Exercise

Identification of fruit trees and varieties.

Objectives

- To know about important fruit trees and their varieties in the locality.

Delivery schedule: 01 period

Student expectations/learning objectives

- Identification of important fruit trees in the locality.
- To know about varieties of important fruit trees.

Handouts/material/equipment's & tools required: Practical note book, pen, and pencil to note down the important points in the identification of important fruit trees and varieties.

Pre-learning required: Pre-requisite knowledge of different types of fruit trees, and their varieties.

Introduction

India is endowed with varying climatic conditions and different fruit trees are grown in different localities on the basis of their climatic requirements. The fruit trees are classified into different categories like temperate, sub-tropical and tropical fruit trees. Temperate fruit trees are exacting in their climatic requirement. They can tolerate both diurnal and seasonal wide fluctuations of temperature. They are grown only in place where winter is distinctly cold. These fruit trees require an exposure of specific chilling requirement for certain period without which they do not flower. These fruit plants are generally deciduous and can stand frost like, apple, pear, peach, almond, walnut, apricot, plum, strawberry etc.

Tropical fruit trees are generally evergreen and are extremely sensitive to cold. They require a moist warm climate but are capable of withstanding dry weather in some cases. Example of tropical fruit crops are banana, coconut, papaya, sapota, mango, pineapple etc. Similarly, sub-tropical fruit trees are grown under a climate which is in between temperate and tropical. They may be either deciduous or evergreen and are usually able to withstand low temperature but not the frost like loquat, litchi, pomegranate, citrus fruits etc. In addition, some of the plants are hardy and can thrive well under extreme dry conditions like lasoda, khirni, *bael*, *ber*, datepalm etc. It is important to mention here that some of the temperate fruit crops or their varieties can also be grown in sub tropical conditions like, low chill peaches, apples and plums. Similarly, majority of tropical fruit crops like papaya, mango, banana etc. can also be grown in subtropical regions provided problem of frost is

For teachers...

- Explain to students the differences between temperate, subtropical and tropical fruits.
- Practically, show different fruit trees and their fruits.
- Practically show the varietal differences in fruit shape, size, colour etc.

not there in the locality. It is very important that students should have knowledge about the fruit trees which are common in their locality. Not only the type of fruit tree but knowledge about variety(ies) of important fruit trees is equally important. A list of commonly grown fruit trees and varieties under different climatic conditions are given in table 1 and 2.

Table 1. Fruit trees under different climatic conditions

Temperate region	Sub-tropical region	Tropical region	Arid region
Apple	Mandarin	Banana	<i>Bael</i>
Apricot	Mosambi	Coconut	<i>Khirni</i>
Walnut	Mango	Papaya	<i>Phalsa</i>
Blue berry	Lemon	Mangosteen	<i>Lasora</i>
Cherry	Grape	Guava	Wood apple
Crane berry	Aonla	Date palm	<i>Pilu</i>
Grape	Guava	Sapota	Bread fruit
Pecan Nut	Pineapple	Mango	<i>Karonada</i>
Peach	Pomegranate	Cashew nut	<i>Ker</i>
Pear	Litchi	Custard apple	<i>Ber</i>
Plum	Loquat	Tamarind	Phalsa

Table 2. Common fruit trees and their varieties

Almond	California Paper Shell, Drake, Non Pariel, Prabhat, Waris, Shalimar, Makdoom
Aonla	Banarasi, Hathi jhool, Chakaiya, Kanchan, Krishna, Laxmi-52, Balwant
Apple	Red Delicious, Golden Delicious, Ambri, McIntosh, Early Shanbury, Royal Delicious, Fuzi, Royal Gala, Red Spur, Granny Smith, Jonathan, Pink Lady
Banna	Dwarf Cavendish, Gros Michel, Poovan, Monthan, Nendran, Harichal, Robusta, Basrai Dwarf
Ber	Gola, Banarsi Karaka, Umran Seb, Ponda, Sannaur
Coconut	West Coast Tall, Chaowght Green Dwarf, Malayan Dwarf Yellow, Dwarf Green, Dwarf Orange, Kera Ganga, Kera Sankara, Chandra Laksha
Custard Apple	Arka Sahan, Balanagar Local, Mammoth
Datepalm	Zahidi, Hilawy, Khadrawy, Medjool, Sharman, Deglet Noor
Grape	Thompson Seedless, Perlette, Bangalore Blue, Anab-e-Shahi, Pusa Urvashi, Pusa Navrang, Bhokri, Delight, Kismish Charni, Beauty Seedless
Guava	Allahabad Safeda, Lucknow-49, Lalit, Allahabad Surkha, Habsi, Behat Coconut, Apple Colour, Seedless
Kiwifruit	Allison, Hayward, Abbott, Bruno, Monty
Lemon	Lisbon, Pant Lemon, Kagzi Kalan, Nepali lemon, Eureka, Baramasi, Italian
Lime	Kagzi lime, Vikram, Pramalini, Sai Sarbati, Tahiti lime, Seedless lime
Litchi	Dehradun, Calcuttia, Purabi, Muzzafarpur, Shahi, Rose Scented, Swarn Roopa

Loquat	California Advance, Improved Pale Yellow, Large Agra, Fire Ball, Thames Pride, Tanaka
Mandarin	Nagpur, Coorg, Khasi Mandarin
Mango	Dushehari, Langra, Chausa, Alphonso, Kesar, Totapuri, Safeda, Amrapali Mallika, Pusa Arunima, Pusa Pratibha, Himsagar, Zardalu, Neelum, Tommy Atkins, Sensation, Carabao, Fazli, Haden
Papaya	Pusa Dwarf, Pusa Majesty, Pusa Delicious, Pusa Nanha, Ranchi, Coorg Honey Dew, Solo
Peach	Sharbati, Shaharnpur Prabhat, Flordasun, J H Hale, Shan-e-Punjab, Earligrande, Red bartlett
Pear	Le Conte, Patharnakh, Gola, Smith, Baghugosha, Bartlett, Conference
Pineapple	Kew, Queen, Smooth Cayenne, Red Spanish, Singapore, Sugar Loaf, Abacaxi
Plum	Satulej Purple, Santa Rosa, Stanley, Kala Amritsari, Titron, New Castle, Kelsey
Pomegranate	Alandi, Ganesh, Muskat, Basin Seedless, Khandari, Dholka, Jyothi, Mridula, Rubi
Sapota	Cricket Ball, Kallipatti, Bhuripatti, Guthi, Oval
Strawberry	Chandler, Tioga, Torrey, Sweet Charlie, Camarosa, Fern, Etna
Sweet Orange	Mosambi, Malta, Valencia, Blood Red, Jaffa, Hamlin, Washington

Walnut Apple varieties

Karan, Bulbul, Gobind, Wilson, Wonder Prolific, Hartley, Franquette



Granny Smith



Jonathan



Golden Delicious



Fuji



Royal Gala



Red Delicious

Mango varieties



Langra



Chausa



Dushehari



Amrapali



Alphonso



Pusa Arunima

Students Activities

1. Visit fruit orchards in your locality and try to identify the fruit trees and their varieties.
2. Write down the morphological differences of varieties of important fruit crops of your locality.

Study Material

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- Sharma, R. R. (2006). Fruit Production: Problems and Solutions. International Book Distributing Company, ISBN 81-8189-102-3.
- Salaria, A. S. (2007). Horticulture at a glance. Jain Brothers, New Delhi.