Plant spices grown in tropical countries on small scale family farms of commercial farms, to provide foods for human or live stock, in dry or humid regions are highly abundant and taxonomically diversified. Vegetables comprise of a large number of plants, mostly annual, of which different parts like leaf, steam, flowers, fruit, root etc. are eaten. They are rich in nutrients and are essential items of a balanced diet. Vegetables are called protective food as their consumption can prevent several diseases. Many vegetables are important items of commerce and thus can play a major role in the economic development. Generally classification of horticulture plants are based on nature of growth climatic requirement continuation of growth types of fruit parts used botanical relationship, salinity tolerance, ripening behaviour, botanical relationship, hardness or temperature tolerance, cool season vegetables, warm season vegetables, parts used as food, methods of raising, etc. Medicinal and aromatic plants are important for human health. These plants have been used from the prehistoric times to present day. These plants based medicines are consumed in all civilizations. It is believed that the herbal medicine can give good effect to body without causing side effects to human life. Besides, the usage of medical plants has been increasing as an important role that can support the economic system. The medical and aromatic plants for health are used as herbal treatments and therapies that can be new habits for culture. Medicinal and aromatic plants constitute a large segment of the flora, which provide raw materials for use by various industries. They have been used in the country for a long time for their medicinal properties. The decision to cultivate medicinal herbs should only be made in response to demand for particular herbs. The market is very competitive and could easily be oversupplied.

This book majorly deals with classification of horticultural plants, classification of flowers, classification of spices, soil and climatic requirements of horticultural plants, beet root, bottle gourd, harvesting and post harvest management, poly house vegetable production in temperate regions, vegetables growing in containers, tea, performance of plants from cutting, vegetative propagation, rubber, biofertilizers in vegetable cultivation, postharvest management of tropical tuber crops, etc.

This is an informative resource of the cultivation, irrigation, manuring, fertilization, harvesting and post harvest management of tropical, subtropical, vegetables, spices, medicinal and aromatic plants. This book is useful for entrepreneurs, ayurvedic institutes, libraries and consultants.
Tarai Soils
Arid Soils
Black Soils
Red Soils
Laterite Soils
Marshy Soils
Climate
Temperate Climate
Tropical Climate
Sub-Tropical Climate
Different Types of Horticulturally Potential Zones
of the Country
Temperate Zone
North-Western Sub-Tropical Zone
North-Eastern Sub-Tropical Zone
Central Tropical Zone
Southern Tropical Zone
Coastal/Tropical Zone
Influence of Climatic Factors
On the Growth of Plants
Temperature
Humidity
Wind
Rainfall
Solar Radiation

3. VARIETAL WEALTH OF HORTICULTURAL CROPS
Fruits
Vegetables
Flowers
Plantation Crops
Seed Spices

4. AGATHI
Climate and Soil
Varieties
Cultivation
Manuring and Fertilization
Aftercare
Yield

5. AMARANTH
Climate and Soil
Varieties
Badi Chaulai
Chhoti Chaulai
Pusa Kiran
Pusa Lal Chaulai
Pusa Kirti
Cultivation
Sowing
Manuring and Fertilization
Irrigation
Interculture
Seed Production
Harvesting and Postharvest Management
6. ASH GOURD
Climate and Soil
Varieties
Apau Shakthi
Cultivation
Irrigation
Crop Regulation
Manuring and Fertilization
Harvesting and Postharvest Management

7. BEET ROOT
Climate and Soil
Varieties
Detroit Dark Red
Crimson Globe
Propagation and Rootstock
Cultivation
Planting
Training and Pruning
Manuring and Fertilization
Aftercare
Irrigation
Harvesting and Postharvest Management
Physiological Disorders

8. BITTER GOURD
Climate and Soil
Varieties
Cultivation
Sowing
Irrigation
Manuring and Fertilization
Intercultural Operations
Harvesting and Postharvest Management

9. BOTTLE GOURD
Climate and Soil
Varieties
Arka Bahar
Kalyanpur Hari Lambi
Punjab Komal
Punjab Long
Punjab Round
Pusa Manjari
Pusa Meghdut
Pusa Naveen
Pusa Summer Prolific Long
Pusa Summer Prolific Round
Rajendra Chamatkar
Cultivation
Field Preparation
Sowing
Manuring and Fertilization
Training
Interculture
Irrigation
10. BRINJAL
Climate and Soil
Varieties
Cultivation
Sowing
Manuring and Fertilization
Interculture
Irrigation
Harvesting and Postharvest Management

11. BROCCOLI
Climate and Soil
Varieties
Palam Samridhi
Cultivation
Manuring and Fertilization
Irrigation
Interculture
Harvesting and Postharvest Management
Physiological Disorders

12. BRUSSELS SPROUT
Climate and Soil
Varieties
Jade Cross
Hilds Ideal
Rubine
Cultivation
Manuring and Fertilization
Irrigation
Interculture
Harvesting and Postharvest Management

13. CABBAGE
Climate and Soil
Varieties
Copenhagen Market
Drumhead Savoy
Golden Acre
Pride of India
Pusa Drumhead
Pusa Mukta
Red Cabbage
September
Cultivation
Planting
Manuring and Fertilization
Interculture
Irrigation
Harvesting and Postharvest Management

14. CAPSICUM
Climate and Soil
Varieties
Cultivation
Sowing
Planting
Training and Pruning
Manuring and Fertilization
Aftercare
Irrigation
Harvesting and Postharvest Management
15. CARROT
Climate and Soil
Varieties
Tropical or Asiatic Types
Temperate or European Types
Cultivation
Land Preparation
Sowing
Manuring and Fertilization
Aftercare
Irrigation
Harvesting and Postharvest Management
Physiological Disorders
16. CAULIFLOWER
Climate and Soil
Varieties
Cultivation
Raising of Nursery
Transplanting
Aftercare
Irrigation
Harvesting and Postharvest Management
Physiological Disorders
Riceyness
Fuzziness
Leafy Curds
Blindness
Buttoning
Chlorosis
Hollow Stem
Browning (brown-rot or red-rot)
Whiptail
17. CELERY
Climate and Soil
Varieties
Fork Hook Emperor
Standard Beared
Wright Grove Giant
Cultivation
Manuring and Fertilization
Irrigation
Interculture
Harvesting and Postharvest Management
18. CHILLI
Climate and Soil
Varieties
Cultivation
Raising Seedlings
Manuring and Fertilization

Irrigation and Interculture
Weed Control
Harvesting and Postharvest Management
19. COWPEA
Climate and Soil
Varieties
Arka Garima
Pusa Barsati
Pusa Dofasali
Pusa Komal
Pusa Phalguni
Pusa Rituraj
Philippines Early
Yard Long Bean
Cultivation
Sowing
Manuring and Fertilization
Irrigation
Aftercare
Harvesting and Postharvest Management
20. CUCUMBER
Climate and Soil
Varieties
Himangi
Japanese Long Green
Poinsett
Poona Khira
Pusa Sanyog
Sheetal
Cultivation
Sowing
Manuring and Fertilization
Aftercare
Irrigation
Harvesting and Postharvest Management
21. CURRY LEAF
Climate and Soil
Varieties
Cultivation
Propagation
Planting
Manuring and Fertilization
Aftercare
Harvesting and Postharvest Management
22. DRUMSTICK
Climate and Soil
Varieties
Chavakacheri Muringai
Chemmurungai
Jaffna Type
Kattumurungai
Kodikalmurungai
Palmurungai
Punamurungai
Yazphanam Muringa
Cultivation
Sowing
Crop Production
Manuring and Fertilization
Aftercare
Weeding
Intercropping
Harvesting and Postharvest Management
23. FRENCH BEAN
Climate and Soil
Varieties
Arka Komal
Bountiful
Contender
Jampa
Kentucky Wonder
Lakshmi
Pant Anupma
Premier
Pusa Parvati
Cultivation
Sowing
Aftercare
Irrigation
Harvesting and Postharvest Management
Physiological Disorders
24. GARLIC
Climate and Soil
Varieties
Propagation and Planting Material
Cultivation
Planting
Manuring and Fertilization
Aftercare
Irrigation
Harvesting and Postharvest Management
Physiological Disorders
25. KALE
Climate and Soil
Varieties
Cultivation
Manuring and Fertilization
Irrigation
Interculture
Harvesting and Postharvest Management
26. KNOL-KHOL
Climate and Soil
Varieties
King of North
Large Green
Purple Vienna
White Vienna
Cultivation
Planting
Manuring and Fertilization
Aftercare
Irrigation
Harvesting and Postharvest Management

27. LABLAB BEAN
Climate and Soil
Varieties
Pusa Early Prolific
Cultivation
Field Preparation
Aftercare
Harvesting and Postharvest Management

28. LETTUCE
Climate and Soil
Varieties
Cultivation
Propagation
Planting
Manuring
Aftercare
Irrigation
Harvesting and Postharvest Management

29. MUSKMELON
Climate and Soil
Varieties
Arka Jeet
Arka Rajhans
Durgapura Madhu
Hara Madhu
Hisar Madhur
Hisar Saras
Punjab Hybrid
Pusa Madhuras
Pusa Rasraj
Punjab Rasila
Pusa Sharbati
Punjab Sunehri
Cultivation
Sowing
Land Preparation
Manuring and Fertilization
Hoeing and Weeding
Irrigation
Harvesting and Postharvest Management

30. OKRA
Climate and Soil
Varieties
Arka Abhay
Arka Anamika
Azad Kranti
Harbhajan Bhindi
Hisar Unnat
Parbhani Kranti
Perkins Long Green
Punjab Padmini
Pusa Makhmali
Pusa Sawani
Red Bhindi
Varsha Uphar
Cultivation
Sowing
Training and Pruning
Manuring and Fertilization
Aftercare
Irrigation
Harvesting and Postharvest Management
31. ONION
Climate and Soil
Varieties
Cultivation
Planting
Transplanting
Planting by Bulbs
Direct Sowing
Planting by Sets
Manuring and Fertilization
Cultural Operations
Irrigation
Harvesting and Postharvest Management
32. PALAK OR INDIAN SPINACH
Climate and Soil
Varieties
Cultivation
Sowing
Planting
Manuring
Aftercare
Irrigation
Harvesting and Postharvest Management
33. PARSLEY
Climate and Soil
Varieties
Cultivation
Manuring
Interculture
Harvesting and Postharvest Management
34. PEA
Climate and Soil
Varieties
Arkel
Bonneville
Harbhajan
Lincoln
Cultivation
Planting
Manuring and Fertilization
Aftercare
Irrigation
Harvesting and Postharvest Management
35. POINTED GOURD
Climate and Soil
Varieties
CHES Elite Line
Chhota Hilli
Dandali
Hilli
Shankolia
Swarna Alaukik
Swarna Rekha
Propagation
Cultivation
Planting
Manuring and Fertilization
Training
Interculture
Irrigation
Harvesting and Postharvest Management
36. PUMPKIN
Climate and Soil
Varieties
Ambili
Arka Chandan
Pusa Vikas
Pusa Vishwas
Cultivation
Sowing
Land Preparation
Interculture
Irrigation
Off-season Cultivation
Seed Production
Hybrid Seed Production
Harvesting and Postharvest Management
37. RADISH
Climate and Soil
Varieties
Asiatic or Tropical
Arka Nishant
Japanese White
Jaunpuri Giant or Newari
Kalyani White
Nadauni
Punjab Safed
Pusa Chetki
Pusa Desi
Pusa Himani
Pusa Reshmi
European or Temperate Varieties
Chinese Pink
Rapid Red White Tipped
Scarlet Globe
White Icicle
Cultivation
Preparation of Land
Sowing
Manuring and Fertilization
Interculture
Irrigation
Growth Regulators
Seed Production
Postharvest Management
Physiological Disorders
38. RIDGE GOURD
Climate and Soil
Varieties
Pusa Nasdar
Satputia
Cultivation
Sowing
Interculture
39. ROUND MELON
Climate and Soil
Varieties
Arka Tinda
Tinda Ludhiana
Tinda Tonk
Tamil Nadu Selection
Cultivation
Planting
Manuring and Fertilization
Interculture
Irrigation
Harvesting and Postharvest Management
40. SNAKE GOURD
Climate and Soil
Varieties
Cultivation
Sowing
Interculture
Harvesting and Postharvest Management
41. SPINACH
Climate and Soil
Varieties
Cultivation
Propagation
Planting
Manuring
Aftercare
Irrigation
Harvesting and Postharvest Management

42. SPONGE GOURD
Climate and Soil
Varieties
Cultivation
Sowing
Interculture
Harvesting and Postharvest Management

43. TOMATO
Climate and Soil
Varieties
Cultivation
Raising seedlings
Direct Seeding
Planting
Training and Pruning
Aftercare
Irrigation
Seed Production
Harvesting and Postharvest Management
Physiological Disorders

44. TURNIP
Climate and Soil
Varieties
Cultivation
Manuring and Fertilization
Irrigation
Interculture
Seed Production
Harvesting and Postharvest Management
Physiological Disorder

45. WATERMELON
Climate and Soil
Varieties
Arka Jyoti
Arka Manik
Asahi Yamato
Durgapura Kesar
Durgapura Meetha
Improved Shipper
New Hampshire Midget
Pusa Bedana
Sugar Baby
Cultivation
Pruning and Training
Manuring and Fertilization
Aftercare
Forcing Watermelons out of Season
Irrigation
Harvesting and Postharvest Management

46. POLYHOUSE VEGETABLE PRODUCTION IN
SUBTROPICS
Selection of Sites
Polyhouse Structures
Frames and Cladding Material
Environment Control
Selection of Vegetables
Nursery Raising
Off-season Vegetables Production
Aftercare

47. POLYHOUSE VEGETABLE PRODUCTION IN
TEMPERATE REGIONS
Polyhouses
Benefits
Status
Indian Polyhouses
Plastic Low Tunnels
Soil Trench
Site Selection
Polyhouse Structure
Vegetable Production
Nursery Raising
Vegetable Production
Seed Production
Hydroponics and Micropropagated Vegetables
Polyhouse Pests and Diseases
Some Problems
Prospects in India

48. VEGETABLES GROWING IN CONTAINERS
Types of Containers
Tools, Manures, Seeds, Fungicides and Insecticides
Suitable Vegetables and their Varieties
Cultivation
Sowing/planting
Aftercare
Harvesting and Postharvest Management

PROPAGATION OF PLANTATION CROPS
49. TEA
Seed Propagation
Storage
Germination
Seed-Size
Seed-Coat
Treatment with Growth Substance
Treatment with Fungicides
Temperature
Biochemical Changes during Germination
Seedling Growth
Seed Size
Effect of Insecticides
Irradiation
Vegetative Propagation
Cutting
Type of Cutting
Etiolation and Girdling
Media
Season
Clonal Variations
Effect of Growth Substances
Stock Plant
Oxygen
Fungicide and Nematicide
Type of Cutting and Growth Substances
Type of Cutting and Media
Type of Cutting and Season
Type of Cutting, Media and Temperature
Type of Cutting, Season and Growth Substances
Type of Cutting, Media and Growth Substance
Type of Cutting and Treatment with Nutrients
Growth Substance, Media and Temperature
Type of Cutting, Light, Humidity, Media and Growth Substance
Storage of Cutting
Other Treatments
Root Cutting
Performance of Plants from Cutting
Layering
Grafting
Methods
Budding
Rootstock
Effect on Growth and Yield
Micropropagation
50. CACAO
Seed Propagation
Storage and Viability
Germination
Stage of Harvest
Depth of Sowing
Air Drying
Size of Pod
Position of Seed in Pod
Temperature
Media
Sugar
Endogenous Substances
Seedling Survival and Growth
Stage of Harvest of Seeds
Container and Media
Effect of Growth Substance and Antitranspirant
Hybrids
Age of Seedling at Transplanting
Vegetative Propagation
Cutting
Stock Plant
Type of Cutting
Media
Humidity
Light
Effect of Growth Substances
Type of Shoot and Growth Substances
Etiolation
Growth Substance and Fungicides
Type of Cutting and Growth Substance
Media and Light
Media and Growth Substance
Type of cutting and Humidity
Type of Cutting, Media and Humidity
Type of Cutting, Growth Substance and Media
Type of Cutting, Media, Humidity and Temperature
Type of Cutting, Media, Light and Growth Substances
Humidity, Temperature, Growth Substance and Light
Clonal Variation
Hardening of Cutting
Layering
Grafting
Budding
Methods
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Top Working
Rootstock
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Incompatibility
Effect of Different Methods of Propagation
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51. COFFEE
Seed Propagation
Viability
Germination
Collection of Seed
Moisture Content of Seed
Effect of Cover
Media
Seed Treatment
Seedling Growth
Depth of Sowing
Container
Media
Growth Substances, Fungicides and Nutrition
Vegetative Propagation
Root Sucker
Cutting
Type of Cutting
Time of Taking Cutting
Media
Humidity
Temperature
Effect of Growth Substances
Type of Cutting and Growth Substances
Type of Cutting, Media and Temperature
Type of Cutting, Media and Growth Substances
Growth Substances and Media
Media, Temperature and Humidity
Root Cutting
Leaf Cutting
Layering
Stooling
Grafting
Methods
Type of Scion
Season
Effect of Leaves
Growth of Grafted Plants
Top Working
Budding
Storage of Budwood
Rootstock
Compatibility
Growth and Adaptibility to Environment
Nematode, Disease and Pest Resistant Rootstock
Micropropagation
52. RUBBER
Seed Propagation
Harvesting
Viability
Germination
Seedling Growth
Vegetative Propagation
Cutting
Type of Cutting
Juvenility
Ringing
Effect of Light
Effect of Growth Substances
Effect of Fungicides
Humidity and Temperature
Type of Cutting and Growth Substances
Grafting
Methods
Performance of Grafted and Budded Plants
Budding
Methods
Selection of Budwood
Age of Rootstock
Budding Material
Treatment
Care of Budded Plants
Performance of Budded Plants
Top Working
Rootstock
Effect on Growth and Yield
Resistant to Pests and Diseases
Influence of Scion on Growth and Yield
Micropropagation
53. OIL PALM
Seed Propagation
Storage and Viability
Germination
Effect of Media and Temperature
Effect of Oxygen
Effect of Irradiation
Effect of Growth Substances
Biochemical Changes
Seedling Growth
Storage of Clone
Vegetative Propagation
Micropropagation
54. ARECANUT
Seed Propagation
Selection of Seed Nuts and Viability
Germination
Raising of Seedling
Selection of Seedlings
Vegetative Propagation
Layering
SPICES
55. BETELVINE
Climate and Soil
Varieties
Propagation
Cultivation
Construction of Bareja or Boroj
Raising of Support Plant in Open Cultivation
Land Preparation
Soil Treatment
Planting
Training/pruning
Manuring and Fertilization
Aftercare
Irrigation
Harvesting and Postharvest Management
56. BLACK PEPPER
Climate and Soil
Varieties
Propagation
Cultivation
Planting
Training/pruning
Manuring and Fertilization
Aftercare
Irrigation
Harvesting and Postharvest Management
57. CARDAMOM (SMALL)
Climate and Soil
Varieties
Propagation
Cultivation
Planting
Manuring and Fertilization
Aftercare
Irrigation
Harvesting and Postharvest Management
58. CARDAMOM (LARGE)
Climate and Soil
Varieties
Bebo
Bharlangey
Golsey
Ramla
Ramsey
Sawney
Propagation
Primary Nursery
Secondary Nursery
Cultivation
Planting
Aftercare
Irrigation
Shade Regulation
Roguing and Gap-filling
Manuring and Fertilization
Harvesting and Postharvest Management
59. CINNAMON
Climate and Soil
Varieties
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Cultivation
Planting
Manuring and Fertilization
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60. CLOVE
Climate and Soil
Propagation
Cultivation
Planting
Manuring and Aftercare
Irrigation
Postharvest Management
61. CORIANDER
Climate and Soil
Varieties
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Sadhna
Swathi
Cultivation
Sowing
Manuring and Fertilization
Weed Control
Irrigation
Harvesting and Postharvest Management
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62. CUMIN
Climate and Soil
Varieties
Cultivation
Sowing
Manuring and Fertilization
Weed Control
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63. FENNEL
Climate and Soil
Varieties
Cultivation
Sowing
Manuring and Fertilization
Weed Control
Irrigation
Harvesting and Postharvest Management
Physiological Disorder
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Climate and Soil
Varieties
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Hissar Sonali
Cultivation
Sowing
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Weed Control
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Harvesting and Postharvest Management
65. GINGER
Climate and Soil
Varieties
Cultivation
Planting
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Rotation and Intercropping of Ginger
Harvesting and Postharvest Management
66. NUTMEG
Climate and Soil
Varieties
Propagation and Rootstock
Cultivation
Nursery
Planting
Aftercare
Irrigation
Harvesting and Postharvest Management

67. TAMARIND
Climate and Soil
Varieties
Urigam
Cultivation
Propagation
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Aftercare
Harvesting and Postharvest Management

68. TURMERIC
Climate and Soil
Varieties
Propagation
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Aftercare
Intercropping
Irrigation
Harvesting and Postharvest Technology

MEDICINAL PLANTS
69. ASGAND
70. DILL
71. GUGGAL
72. HENBANE
73. ISABGOL
74. KHASI KATERI
75. LIQUORICE
76. OPIUM POPPY
77. PERIWINKLE
78. PIPALI
79. RAUVOLFIA
80. SENNA

AROMATIC PLANTS
81. AMBRETTE SEED OR MUSKDANA
82. CELERY
83. CHAMOMILE
84. DAVANA
85. FRENCH JASMINE
86. INDIAN BASIL
87. JAVA CITRONELLA
88. KEWADA
89. LEMON GRASS
90. MINT
Peppermint
Spearmint
Bergamot Mint
91. PALMAROSA OIL GRASS
92. PATCHOULI
93. ROSE GERANIUM
94. SCENTED ROSE
95. VETIVER
96. BIOFERTILIZERS
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Symbiotic Nitrogen Fixation
Asymbiotic Nitrogen Fixation
Azotobacter
Phosphate Solubilizing Biofertilizers
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Cutting/Set Treatment
Seedling Treatment
97. MANAGEMENT OF DISEASES
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Preventing Entry of Inoculum
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98. POSTHARVEST MANAGEMENT OF POTATO
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Postharvest Losses
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Harvesting and Handling
Storage
Utilization
Processing
Anti-nutritional Factors
Elephant-Foot Yam
Harvesting and Handling
Utilization
Anti-nutritional Factors
Taro
Harvesting and Handling
Storage
Utilization
Anti-Nutritional Factors
Tannia
Harvesting and Handling
Storage
Utilization
Anti-Nutritional Factors
Lesser Yam
Harvesting and Handling
Storage
Utilization
Greater Yam
Harvesting and Handling
Storage
Utilization
White Yam
Harvesting and Handling
Storage
Utilization
Arrow-Root
Harvesting and Handling
Utilization
Chinese Potato
Harvesting and Handling
Storage
Utilization
Yam Bean
Harvesting and Handling
Storage
Utilization
Winged Bean
Harvesting and Handling
Winged Bean
Storage
Utilization
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Handling Fresh Mushrooms
Harvesting
Pre-Cooling
Sorting
Dipping/Treatments
Packaging
Transportation
Storage
Processing
Low Temperature
High Temperature
Drying
Chemicals
Pickling and Lactic Acid Fermentation
Irradiation
Minimal Processing
Other Products
Future Thrust and Export
101. Tools and Equipments used in Horticulture

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