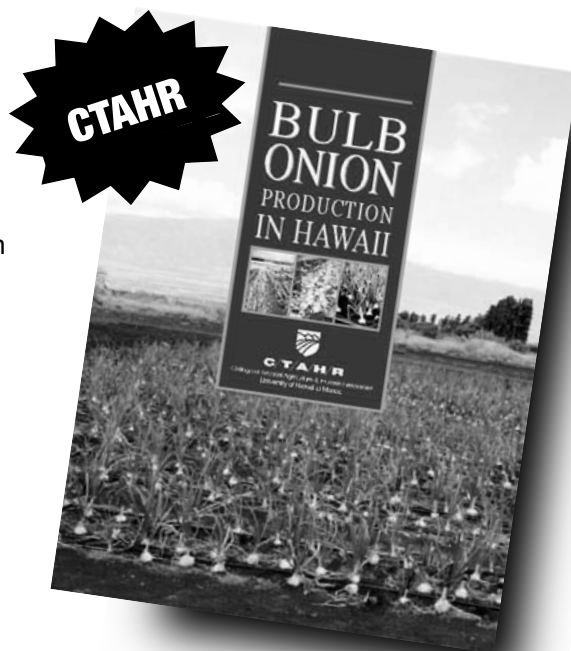


Bulb Onion Production in Hawaii

Onions grown on Maui have been a favorite specialty product in Hawaii for many years. The mild “Maui” onions have become famous for their flavor and quality. Recent increases in opportunities for agricultural production throughout the state have combined with renewed interest in locally grown products to substitute for imports, and bulb onion production has expanded. This field production manual is a comprehensive guide to growing bulb onions and managing pests of the crop. Although focused on Hawaii’s conditions, the manual contains much that is applicable to other warm-climate regions.

52 pages, color illustrations, appendix, soft cover.



Onions in Hawaii and around the world

Onion growth; Climate and daylength requirements for bulbing; Cultivars; Bulb onion production areas in Hawaii

Soils and soil fertility management for onion production

Choosing a soil to grow onions; Amending the soil; Managing soil nutrient levels; Soil analysis; Plant tissue analysis; Collecting the plant tissue sample; Fertilizer applications; Sulfur and pungency; Micronutrients; Nutrient deficiency and toxicity symptoms

Culture and management practices

Land and bed preparation; Planting; Direct-seeding; Transplants; Sets; Irrigation; Wind protection

CONTENTS

Integrated pest management for field onion production

What is integrated pest management? The IPM approach; Considerations for implementing an IPM program; Know the enemy and predict its occurrence; Cultural control practices; Biological control practices; Chemical control practices

Insect pests—Monitoring insects in the onion crop; Onion thrips, the major insect pest of onion; Agromyzid leafminers (pea leafminer, vegetable leafminer, celery leafminer); Beet armyworm; Asiatic onion leafminer; Seedcorn maggot; Onion aphid; Western flower thrips

Onion diseases—Pink root; Fusarium basal plate rot; Downy mildew; Purple blotch; Botrytis leaf blight; Botrytis neck rot; White rot; Black mold; Bacterial soft rot
Nematodes
Weeds—Preplanting and preemergence herbicides; Postemergence herbicides

Harvest and postharvest practices

Timing; Production yields; Harvesting operations; The curing process; Artificial curing; Grading; Handling and packing
Storage

Market information

Supply; Demand; Cost of production

References; Appendix: Pesticides for onions

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