

---

# NEW JERSEY IRRIGATION GUIDE

## CONTENTS

---

---

<b>Contents:</b>	<b>Chapter 1</b>	<b>Introduction</b> a) General Information b) Considerations c) Irrigation System Plan
	<b>Chapter 2</b>	<b>Soils</b> a) Water Holding Capacity b) Water Intake Rate c) Water Application Rates d) Available Water Capacity e) Erosion Control f) Information for Design Purposes
	<b>Chapter 3</b>	<b>Crops</b> a) Critical Growth Periods b) Salinity Tolerance c) Irrigation-Related Management Factors
	<b>Chapter 4</b>	<b>Water Requirements</b> a) Crop Evapotranspiration b) Net Irrigation Water Requirements c) Management Allowed Soil-Water Depletion d) Auxiliary Water Requirements e) Water Requirements for Soil-Water Budget/Balance Analysis f) Water Sources
	<b>Chapter 5</b>	<b>Irrigation Method Selection</b> a) General b) Methods and Systems to Apply Irrigation Water c) Site Conditions d) Selection of Irrigation Method and System e) Adaptability and Limitations of Irrigation Methods and Systems
	<b>Chapter 6</b>	<b>Irrigation System Design</b> a) General b) Sprinkler Irrigation Systems c) Sprinkler System Design d) Micro irrigation Systems e) Microirrigation System Design

---

---

<b>Chapter 7</b>	<b>Farm Distribution Systems</b> a) Pipeline Delivery Systems b) Open Ditches c) Water Control Structures d) Water Management e) Tailwater Recovery Systems (container nursery) f) Pumping Plant
<b>Chapter 8</b>	<b>Project and Farm Irrigation Requirements</b>
<b>Chapter 9</b>	<b>Irrigation Water Management</b> a) General b) Irrigation Water Management Concepts c) Soil-Plant-Water Balance d) Irrigation Scheduling e) Irrigation System Evaluation
<b>Chapter 10</b>	<b>Conservation Management Systems and Irrigation Planning</b> a) General b) The Planning Process c) Irrigation Water Management Plan d) Planning Aids
<b>Chapter 11</b>	<b>Economic Evaluations</b>
<b>Chapter 12</b>	<b>Energy Use and Conservation</b>
<b>Chapter 13</b>	<b>Quality of Water Supply</b> a) General b) Water Quality
<b>Chapter 14</b>	<b>Environmental Concerns</b>
<b>Chapter 15</b>	<b>Tools and Worksheets</b>
<b>Chapter 16</b>	<b>Special Use Tables, Charts, and Conversions</b>
<b>Chapter 17</b>	<b>Glossary and References</b>

---