

TREE PLANTING FUNDAMENTALS

by J. Roger Harris and Nina L. Bassuk

Abstract. Transplanting imposes severe physiological stress because over 95% of the root system is removed when the tree is dug. The landscape designer and contractor can make decisions that will improve the chances of success. Advantages and disadvantages of purchasing trees produced by different production methods are discussed from the landscape contractor's point of view. Current research concerning key steps in the planting process is reviewed, and recommendations are made.

Tree selection, planting and establishment is a many-faceted process in which tradition plays a fundamental role. Contemporary research has questioned many of our traditions concerning the transplanting operation such as the morphology of root systems (36), the addition of soil amendments to the backfill soil (49), the pruning of up to 1/3 of the canopy at transplanting (39) and the wrapping of trunks (32). Trees are complex organisms, and transplanting success depends upon interactions among the physiological condition of the tree at the time of transplanting, climate, micro-climate, soil conditions and post-transplant care. Research reports often contain conflicting results because these intricate interactions are seldom consistent among investigations. However, controlled conditions usually necessitate the use of small trees in laboratory conditions, and such results are often not very applicable to landscape-sized trees in an open environment.

The Problem

Trees have a remarkable capability to survive catastrophic stresses such as transplanting. A tree growing in a reasonably undisturbed mesic site rarely has a tap root, has a horizontal root spread that is 2.5 - 3.0 times greater than the crown spread, has most (>60%) roots outside of the drip line, has most (>95%) roots in the top three feet (1 m) of soil, and has most fine, or smallest diameter, roots in the top 6 in (15 cm) of soil (15,16,36,47). It is obvious from this generic description, that only a small percentage of these roots will be moved when the tree is transplanted.

Estimates of the roots left at the nursery are from 91 - 98 % (15,47). Cultural practices in the nursery such as root pruning (21), irrigation (23), fertilization (8), root-ball configuration (42) or production method (19) can influence the percentage of harvested roots. Water stress, caused by the removal of most of the water absorbing organs of the plant, is the major cause of transplant failure (27). Removal of root tips also reduces the number of sites of hormone synthesis and a disruption in root signal to the shoot occurs. Such a disruption can cause a reduction in post-transplant photosynthesis (18). Once transplanted, irrigation management is critical because not only the root system, but the available reservoir of water has been reduced. Most of the water absorption capability within a transplanted root-ball is a result of small diameter roots (18). These fragile roots are the first to suffer from desiccation. Traditional wisdom states that trees with coarse roots do not transplant with as much success as trees with a root-ball containing smaller, more branched roots. Research has for the most part borne this out (11). Root-balls with fewer, but larger roots may have equal root dry weight as root-balls with smaller diameter roots, but the absorbing power is less because smaller roots have a larger root surface per unit of dry weight. The ability to survive the removal of much of the root system is indicative of a plant's ability to endure with sufficient vigor long enough to allow for the regeneration of roots into the surrounding backfill. Factors that contribute to the root regeneration potential of the transplant include the amount of carbohydrates stored for root regeneration energy (46), the ability to tolerate or avoid desiccation (25) and a physiological ability to function while roots regenerate (3).

Sources of Plant Material

Modern landscaper contractors and landscape architects must choose species, size, and production method. Traditionally, the choice was

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Process Plant Reliability sets forth a variety of tested and proven tools and methods to assess and ensure the reliability and mechanical integrity of process equipment including failure analysis Fitness for Service assessment engineering economics for chemical processes and process component function and performance criteria Section Three Process Measurement Control and Modeling examines flow meters process control and process modeling and simulation Throughout the book numerous photos and diagrams illustrate the operation and control of key process equipment There are also case studies demonstrating how actual process plants have implemented the tools and techniques discussed in the book At the end of each chapter an extensive list of references enables readers to explore each individual topic in greater depth In summary this text offers students process engineers and plant managers the expertise and technical support needed to streamline and optimize the operation of process plant equipment from its initial selection to operations to troubleshooting

Essentials of Plant Nursery Management 2nd Edition P.K. Ray, 2020-08-17 The second edition of the book *Essentials of Plant Nursery Management* represents a thoroughly revised and updated version of the preceding edition It offers a cohesive treatment of the subject covering fundamental principles of plant science and business management to operate a plant nursery in a highly profitable and professional manner The book provides both general and specific information on the full range of topics related to nursery management It explains in great detail how to run business that raises and sells plants for substantive profit This is an essential reading not only for graduating students but for anyone considering entry into the nursery business and also for those already in the nursery industry Looking at the recent technological advances in the field a new chapter on Mechanisation and Automation in the Plant Nursery has been added The book is heavily illustrated for enhanced understanding of the subject It meets the requirement of a course entitled plant propagation and nursery management taught at UG and PG level in agriculture horticulture Forestry courses at universities in India or abroad Besides students a wide range of people including horticulturists plant breeders gardeners foresters researchers florists arborists plant propagators nursery operators extension educators and agriculture consultants who desire a good understanding of the subject would find this book as an indispensable resource of pertinent learning materials

Resources in education ,1991

Practical Plant Failure Analysis Neville W. Sachs, 2016-04-19 Component failures result from a combination of factors involving materials science mechanics thermodynamics corrosion and tribology With the right guidance you don't have to be an authority in all of these areas to become skilled at diagnosing and preventing failures Based on the author's more than thirty years of experience *Practical Plant Failure Analysis A Guide to Understanding Machinery Deterioration and Improving Equipment Reliability* is a down to earth guide to improving machinery maintenance and reliability Illustrated with hundreds of diagrams and photographs this book examines When and how to conduct a physical failure analysis Basic material properties including heat treating mechanisms work hardening and the effects of temperature changes on material properties The differences in appearance between ductile overload brittle overload and fatigue failures High cycle fatigue

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Handbook of Water and Wastewater Treatment Plant Operations, Second Edition Frank R. Spellman,2008-11-18 Hailed on its initial publication as a real world practical handbook the second edition of Handbook of Water and Wastewater Treatment Plant Operations continues to make the same basic point water and wastewater operators must have a basic skill set that is both wide and deep They must be generalists well rounded in the sciences cyber operations math operations mechanics technical concepts and common sense With coverage that spans the breadth and depth of the field the handbook explores the latest principles and technologies and provides information necessary to prepare for licensure exams Expanded from beginning to end this second edition provides a no holds barred look at current management issues and includes the latest security information for protecting public assets It presents in depth coverage of management aspects and security needs and a new chapter covering the basics of blueprint reading The chapter on water and wastewater mathematics has tripled in size and now contains an additional 200 problems and 350 math system operational problems with solutions The manual examines numerous real world operating scenarios such as the intake of raw sewage and the treatment of water via residual management and each scenario includes a comprehensive problem solving practice set The text follows a non traditional paradigm based on real world experience and proven parameters Clearly written and user friendly this revision of a bestseller builds on the remarkable success of the first edition This book is a thorough compilation of water science treatment information process control procedures problem solving techniques safety and health information and administrative and technological trends

Literature

Recommendations: Industrial Technical Library United States. International Cooperation Administration. Office of Industrial Resources,1960

Food Plant Sanitation Michael M. Cramer,2013-05-29 Food safety and quality are primary concerns in the food manufacturing industry Written by an author with more than 35 years experience in the food industry Food Plant Sanitation Design Maintenance and Good Manufacturing Practices Second Edition provides completely updated practical advice on all aspects of food plant sanitation and sanitati

Lubrication and Reliability Handbook Michael J NEALE,2001-01-05 This handbook helps engineers in industry with the operation and maintenance of machinery It provides the information that these engineers need in a form that is instantly accessible and easy to read The manufacturers of machinery give guidelines on the operation lubrication and maintenance required for their particular equipment There are however many different machines in an industrial plant or service organisation often supplied by many different

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