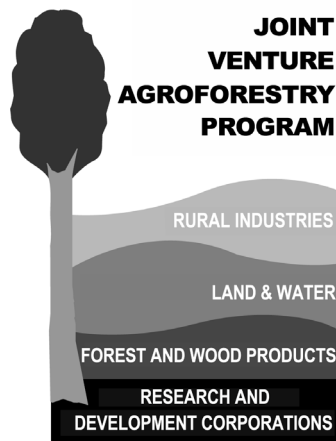




A Bibliography of Plantation Hardwood and Farm Forestry Silviculture Research Trials in Australia

**A report for the RIRDC/Land & Water
Australia/FWPRDC
Joint Venture Agroforestry Program**

by Rosemary Lott

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Foreword

Australian federal and state government policies are supporting the development of plantations on cleared land for wood production, as part of the 20:20 vision. With an increasing interest in planting Australian native trees, there is a need to compile the available results of research field trials and interpret them for use in farm forestry and hardwood plantation forestry. The National Farm Forestry Silviculture project was devised to address this need, with agreement to collaborate from state forestry research institutions throughout Australia. This bibliography is one part of the project.

The project targets silviculture of Australian native tree species, especially eucalypts. For the purposes of this project, silviculture is defined as field management of trees, that is, after the nursery stock and site have been chosen. The project presents data from research trials in plantations and other farm forestry plantings with the potential to be grown for wood and other production values. Although several literature reviews have included reference to eucalypt field silviculture, there has been no effort to compile a comprehensive bibliography of hardwood silviculture research. The large number of eucalypt species, the wide range of sites, and the recent nature of hardwood plantation research, mean that research effort has been somewhat broad-ranging. A bibliography which compiles this literature is of use to researchers in plantation silviculture and also as a reference for extension officers in farm forestry, particularly those who are remote from forestry libraries and research centres. With a few exceptions, the bibliography does not include research into species and provenance selection, and the effects of site. This is or has been compiled and/or reviewed by other recent projects on hardwoods (*Eucalyptus*, *Acacia*, and *Grevillea*). Research results from decades of growing *Pinus* species in plantation in Australia are also generally not included; there are already several reviews of genotype selection and silviculture of *Pinus* species in plantation.

The bibliography includes keywords for each citation - these are also indexed at the back of the report.

This project was funded by the Farm Forestry Program (Agriculture Forestry and Fisheries Australia) and coordinated by RIRDC under the Joint Venture Agroforestry Program (JVAP). The JVAP is supported by three R&D Corporations — Rural Industries, Land & Water Australia and Forest and Wood Products. These Corporations are funded principally by the Federal Government.

This report, a new addition to RIRDC's diverse range of over 700 research publications, forms part of our Agroforestry and Farm Forestry R&D program, which aims to integrate sustainable and productive agroforestry within Australian farming systems.

Most of our publications are available for viewing, downloading or purchasing online through our website:

- downloads at www.rirdc.gov.au/reports/Index.htm
- purchases at www.rirdc.gov.au/eshop

Peter Core
Managing Director
Rural Industries Research and Development Corporation

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The regular forestry citation lists provided by Queensland DPI Forestry library to staff (including QFRI) during 1997-2001 assisted greatly in identifying recent publications. I also thank the individual researchers and institutions who provided publication lists, both general, and of their own work. The library staff at QFRI Gympie and DPI Forestry head office assisted with obtaining interlibrary loans, photocopying and tracking down obscure or incomplete citations – a special thank you to Lee Tonkin, Natasha Waters and Antonia Antoniou. Bernie West and Kate Murray typed some references into the SILVDAT database, from which this bibliography was derived. Trevor Wardill assisted with typing keywords, photocopying and proof-reading.

Research organisations/individuals who provided general publication lists or lists of their personal work were:

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- Richard Harper, Richard Moore, Peter Ritson, and CALM Library (Conservation and Land Management (CALM), Como and Busselton, Western Australia)
- Justine Edwards (Department of Botany, University of Western Australia)
- Prof. John Fox (Curtin University)
- John Koch (ALCOA, Western Australia)
- Chris Beadle, Caroline Mohammed, Clare McArthur (CRC for Sustainable Production Forestry)
- Annual reports 1994-2000, Cooperative Research Centre for Sustainable Production Forestry
- web site, RIRDC - List of full research reports 2000 (<http://www.rirdc.gov.au/reports/Index.htm>)
- web site, Institute of Foresters Australia (<http://www.ifa.unimelb.edu.au/forestryabstracts>)
- list of Australian references from the BRS brief to Minister for Forestry and Conservation on Fertilisers in Forestry
- web site, Queensland Forestry Research Institute

Abbreviations

ACIAR	Australian Centre for International Agricultural Research
ATSC	Australian Tree Seed Centre (CSIRO)
CAI	current annual increment
CIFOR	Centre for International Forest Research
CRCTREM	Cooperative Research Centre for Tropical Rainforest Ecology and Management
CRRP	Community Rainforest Rehabilitation Program
CSIRO	Commonwealth Scientific and Industrial Research Organisation
FWPRDC	Forest and Wood Products Research and Development Corporation
IUFRO	International Union of Forest Research Organisations
LAI	leaf area index
LWRRDC	Land and Water Resources Research and Development Corporation
MAI	mean annual increment
PAI	periodic annual increment
QFRI	Queensland Forestry Research Institute
subsp.	subspecies

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1. Introduction

1.1 The National Farm Forestry Silviculture project

The National Farm Forestry Silviculture project was devised to address the information needs of silviculture researchers and farm foresters. It is funded under the Farm Forestry Program (AFFA) and coordinated by Rural Industries Research and Development Corporation (RIRDC) under the Joint Venture Agroforestry Program (project No. DAQ-222A). The four-year project is managed by Dr Rosemary Lott, Queensland Forestry Research Institute, with collaborators in government forest research agencies from all states.

The project targets silvicultural experiments on native species in plantation and species grown in farm forestry situations (e.g. wide-spaced trees, low rainfall pine). There will be several outputs from the project: i) this bibliography; ii) a database and report listing past and current silvicultural experiments; iii) a review of Australian silvicultural research in hardwood plantations and farm forestry, to identify future research needs; iv) protocols for research trial design, data collection and presentation, to encourage more comparability between farm forestry and research trials in the future.

A national database (SILVDAT) has been developed – it is designed for storing information describing published and unpublished trials on plantation silviculture of Australian native tree species, plus some data from agroforestry trials including exotic pine in low rainfall areas. Species included are those used in industrial plantation situations, as well as ‘non-traditional’ species. Both past and current research experiments on plantation silviculture are described.

The database will perform a number of functions. The major function is to provide a national register of plantation silviculture experiments on native species, with a brief summary of each experiment’s design. A minimum data set is used to describe most experiments, as required for the trials register due to be published soon. Records include a list of trials given by government forestry research organisations in each of the states of Australia. The project also seeks information on silvicultural research trials by private industry and other organisations. The database has a small amount of growth data from published reports, where time and availability permitted data entry. SILVDAT has been designed to be compatible with CSIRO’s TREDAT database framework. Trials which only test growth of species or genotypes across sites are not generally entered into SILVDAT (these are included in CSIRO’s TREDAT). However trials which include both silvicultural treatment and genotype comparisons are included in the database.

SILVDAT currently contains a) bibliographic details for 625 published reports, b) descriptions of (past) experiments from a large number of these reports, c) summary information from current unpublished trials from CSIRO and State government research organisations, and d) summary information describing some older unpublished trials, primarily from Queensland and New South Wales government forestry. All of the reports included in this bibliography are included in SILVDAT. In the database, related papers are connected to the same experiment ID number, where experiment details have been entered.

The database currently contains approximately 1200 experiments (including 144 with some kind of growth data entered), of which 750 come from existing publications, and 450 are unpublished experiments from state government and private research organisations.

1.2 Scope of the bibliography

The bibliography targets publications which report on silviculture research experiments with native tree species in Australian plantations. For the purposes of this project, silviculture is defined as field management of trees, that is, management treatments applied after the planting stock has left the nursery and the sites have been chosen. Field management includes site preparation, tree protection, fertilization, weed control, herbicide susceptibility, thinning and pruning.

A silviculture experiment intentionally compares at least two different management treatments in a controlled, replicated and pre-determined manner. Here, the term ‘experiment’ is used synonymously with ‘research trial’, to mean trees planted under controlled and documented site and management conditions, with intentional comparison of at least two treatments, and with careful measurements made of tree growth. The bibliography

targets papers and reports which describe experimental design, site, and/or growth data from these trials. The bibliography also presents some reports with growth data from farm forestry plantings with the potential to be grown for wood and other production values.

The bibliography targets silviculture of Australian native tree species, especially eucalypts, but also native pines and rainforest cabinet species, and native species used in saline site rehabilitation. Trials with *Pinus* species are not generally included in the bibliography.

Some exceptions to the above have been included in the bibliography:

- Trials which test field performance of nursery treatments, generally where nursery trials are outplanted to test their survival and growth.
- Reports which present results of monitoring vertebrate, insect or fungal damage are included, because of the influence of these factors on tree growth, and the paucity of manipulative/ experimental trials. This includes some studies conducted in native forest.
- A few reports on silviculture in native forest regrowth have been included where the eucalypts form an even-aged stand, or have been studied for pests/pathogens or coppice.
- Included in the bibliography are reports which give tree measurements from planting situations used for farm forestry, that is, windbreaks, shelterbelts, oil production, coppice production, and difficult sites, i.e. low rainfall areas, saline areas, frost-prone sites. These 'farm forestry situations' include some trials with pines - some reports include *Pinus* species as part of a species comparison, or in farm forestry situations, such as on frost-prone (e.g. *Pinus radiata*) or low rainfall sites (*P. pinaster*).
- The bibliography includes some species evaluation trials, where they were deemed to be located on difficult/unusual sites such as low rainfall or saline sites, or where the species choice included promising cabinet or firewood species suitable for growing in farm forestry.
- Some single-management trials (demonstration plots) are included, where they give growth data from trees grown as small-scale farm woodlots. These are usually reported by Landcare or Regional Plantation Committee extension officers, either as an internal report, or as an article in a farm forestry magazine.
- Reports which address special silviculture management issues (e.g. levels of insect or vertebrate attack on plantations), and trials which test alternative techniques for farm forestry are included: pasture assessments under planted trees; direct seeding; and mixed species trials. These trials might not include a direct comparison with other treatments. For all these types of trials, the trees are potentially for saleable products other than food, primarily wood production, and the data offers some insight into tree growth in farm forestry woodlots.
- Reports which detail other measurements made on a silvicultural experiment or 'farm forestry' planting, e.g. soil salinity, tree water use, level of insect attack or browsing damage, wood quality analysis. Such papers are given a different 'topic' code (see below). In the case of a few well documented projects (e.g. BFG experiment near Canberra, Flushing Meadows near Wagga Wagga), not all publications produced from the site are included in the bibliography.
- Research experiments which describe aspects of a site or tree physiology, for which tree growth data is available or potentially measurable.

The bibliography excludes the following:

- A large number of publications since the 1970's refer to the toxicity of various herbicides to eucalypts, under tests where *Pinus* spp. were the tree crop, and eucalypts the woody weed. Many of these trials are concerned with pine response, and eucalypt death was all that was required. These were excluded from the bibliography - These references may be useful to indicate which chemicals and concentrations not to use if growing eucalypts, however current forestry prescriptions generally indicate which herbicides are suitable for use near eucalypts. Only recent herbicide trials in eucalypt plantations (which aim to retain eucalypts) have been included in the bibliography. The bibliography omits herbicide trials which have been the subject of internal reports regarded as intellectual property by the company funding the research.

- There are a large number of Australian research trials which test genotype by site interaction or evaluate species at a single site, using a single management prescription. As indicated above, such trials are not generally included in the bibliography. Other projects are collating experiment descriptions and growth data from species evaluation trials and genotype by environment interaction trials (Greening Australia; CSIRO (ATSC) using the database TREDAT; other RIRDC projects such as DAV-129A, and CSF-56A).
- References which document pasture production under remnant native forest trees are not included.

1.3 Information sources

The majority of the references were obtained by searching TREECD, OVID, current periodicals, RIRDC reports, and citations within other references. Additional lists, particularly of internal department reports were provided by staff at CALM in Perth and Busselton, Western Australia; Centre for Forest Tree Technology, Melbourne; State Forests of New South Wales; CSIRO and Queensland Forestry Research Institute (see acknowledgements). Annual reports and/or web sites by QFRI, CRC for Sustainable Production Forestry, and Institute of Foresters Australia were consulted. Ryde James provided the list of ANU theses. The bibliography does not document reports from private forestry companies.

There was no cut-off for publication date but the majority of the reports on hardwoods have been published since the late 1980's. Some form of basic growth data (survival, height, diameter, basal area, or volume) is provided in 340 of the 625 reports listed in the bibliography.

1.4 Organisation

The references are listed in alphabetical order according to author, and are numbered sequentially. There are 625 unique references. Each reference has the following structure:

Reference number
 Author(s) and date of publication
 Title
 Source
 Publication type, Stand type, Data type (availability)
 Keywords
 Data measured

The reference number is used in the Keyword Index that follows the List of Publications. This Index is arranged alphabetically, according to key words. As many of the references cover more than one subject, they are indexed more than once. Keywords use general terms to describe the type of experiment and treatments, plus include species tested, and the state in which each experiment is located. Keyword definitions are given below.

The codes used to indicate the type of paper ('Publication type') are as follows:

A	Level of insect, vertebrate or pathogen attack measured (NB: does not include manipulation of insects or trees, such as application of insecticide)
B	Experimental results which give Background information on silviculture e.g. quantity of essential oils; see category A for pests
C	Climate description (specific to site)
D	Research directory
E	Silviculture experiment description (or report including growth data)
E & W	Silviculture experiment description & wood analyses
G	General information about a silviculture trial; does not detail experiment – includes brief articles in extension literature, and general articles which include a graph or table from a research experiment but no real detail.
M	Model based on field data
O	Other, e.g. pasture or livestock assessment under different tree management/densities
P	Physiology or water balance study, e.g. transpiration; canopy conductance; stomatal conductance; crown structure; root structure; water use, water table level, salinity.
S	Soils description (specific to site)
W	Wood study (hardwood plantation only)

1.5 Keywords

1.5.1 Stand types

The type of tree stand or planting technique applied to the experiment is given for each report:

PL – experiment/ measurement of planted trees is described in the report.

PL – ALLEY – measurement of trees planted as alley or timberbelt is described in the report.

PL – MINE – measurement of trees planted as mine rehabilitation is described in the report.

Demonstration plot/routine management plot – no silviculture comparison; may include more than one species. (Generally old forestry trial plots, or recent farm forestry plantings.)

DS – direct seeding trial.

NF – data from study conducted in native forest is described in the report.

NF-regrowth – data from study conducted on native forest regrowth (e.g. *E. pilularis*) is described in the report.

NURS – paper also reports a related nursery/greenhouse/laboratory trial.

1.5.2 Data availability in paper ('Data type')

GD – basic stand growth data (i.e. diameter, height, mean dominant height, survival, biomass, leaf area, basal area or volume) is provided in the paper, either in table or graph form.

GEN - Review, discussion or brief article – paper is of a general or review nature, and either does not describe experimental design or does not give growth data.

GEN-Experiment description – Paper describes experiment but does not give results in data form.

GEN-Project description – Paper describes overall project but does not detail individual experiment results.

1.5.3 State, species list, site

State and species – Keywords include the Australian state in which each research trial was conducted, and species tested in the experiment/trial. Only the tree species planted or studied are listed. Pasture species are listed if they were measured or sown.

Site comparison (within experiment) – only used where an experiment compares the exact same treatments across sites.

Site comparison (across experiments) – used where the report compares species response across sites, but the sites were not planted at the same time or with the same treatments.

1.5.4 Species comparisons

Genotype trials are indicated by:

species trial (only) – the paper reports a trial which tests only species comparisons.

provenance trial (only) – the paper reports a trial which tests only provenance comparisons (single species).

Species/provenance/clone/family trial (only) – used where the trial tests more than one genotype level, but no silvicultural treatment comparisons were applied.

Species comparison – Species were compared as part of the trial, but other aspects of trial design are unknown (either the paper does not describe the design, or the whole paper was not obtained for viewing).

Species comparison (general) – Occasionally used where a more general report compares species from different experiments on different sites, to draw conclusions about general species growth or wood properties.

1.5.5 Species x silviculture comparisons

Some trials contain treatment combinations which compare more than one taxa's responses to different silvicultural treatments:

species/provenance comparison within silv. trial - the experiment compared more than one species and/or provenances' response to a range of silvicultural treatments.

1.5.6 Factors tested

The type of factors tested (e.g. fertiliser, weed control) are listed for each publication, which may span more than one research trial. NOTE that apart from grazing, irrigation, fencing, insect pests and use of tree guards, the type of silvicultural management applied to the site is NOT listed unless it is one of the experimental treatments applied. Some definitions of the scope of ‘factor’ keywords are listed below, and others are given in the keyword definition section. Grouping terms are indicated by *.

**Silviculture* – only listed where the experiment includes a field comparison of silvicultural treatments. Includes planting stock. Does not include insect monitoring papers, species/provenance trials, windbreaks, saline sites with no silvicultural comparison.

**Agroforestry* – includes wide-spaced trees, saline sites, oil production species, grazing/pasture effect trials, windbreaks, alley/timberbelts.

Saline site – all saline sites are indicated.

Irrigation – all irrigated sites are indicated.

Site preparation – includes cultivation, ripping, mounding, scalping, scarification.

Spacing – initial spacing/stocking was tested in the experiment. This includes initial stocking rate and tree spacing arrangement between and within rows.

**Establishment techniques* – includes site preparation, slash retention, direct seeding, mulching, tree guards, initial fertiliser, initial weed control. Does not include trials testing planting stock, underplanting or trials which have irrigation as routine management across the plots without other silvicultural comparisons.

Fertiliser application or requirement – amount or type of fertiliser compared with other treatments in the trial. Actual fertilisers applied also listed as keywords.

**Nutrition – cycling or requirements or analysis* – soil or plant material analysed for nutrient content or nutrient deficiency symptoms.

Weed control – level or type of weed control method is compared. Does not include herbicide type trials where phytotoxic effect is the only measurement.

Insecticide /herbicide – Insecticide or herbicide application is compared with other management treatments in the experiment, or types of chemicals are compared. Individual pesticide brand names and active ingredients used as treatment comparisons are also listed as keywords. Chemicals used as part of routine management across an experiment are not listed under keywords. In the keyword definitions section, descriptions of herbicide and insecticides (and sometimes LD50’s) come from (Hamilton 1997) and (Tomlin 1997), with supplementation from (Fagg 1988), (Flinn, et al. 1979) and other published silvicultural trials testing herbicide effects on eucalypt phytotoxicity or tree growth.

Thinning – Trial compares treatments with different reduction of stocking rate i.e. thinning of a stand to less than original density.

**Plantation pests* – Paper documents plantation pests or measures their effect on trees. Includes insect pests, fungal disease, pathogens, vertebrate pests, mammal browsing.

**Pest control* – Trial excludes pests by fencing, tree guards or use of insecticide or repellents.

**Physiology* – Trial examines water use, stomatal conductance, root uptake or other aspects of tree physiology.

**Wood properties* – Trial tests milling or wood properties of plantation hardwoods. Note that other wood-associated keywords are only listed if the paper mentions them. This includes intended product.

1.5.7 Data measured

Variables reported as measured in the experiment (but not always provided in the paper) are listed. Basic growth variables are listed (diameter, height, survival, biomass, leaf area, basal area, volume), along with other parameters measured. The latter takes the following form:

DATA - – other data measured in experiment.

2. List of publications

1

ABBOTT, I.; VAN HEURCK, P.; AND BURBIDGE, T. 1993.

Impact of frequency and intensity of defoliation on growth of jarrah (Eucalyptus marginata): an experimental study with saplings

Forest Ecology and Management 56(1-4): 175-183

Publication type: E DataType: GD
Stand Type: NF

Keywords:

application rate; defoliation - artificial; Eucalyptus marginata; jarrah; plantation pests; Silviculture; treatment repetition; Western Australia

Data measured:

DATA - canopy depth, Calculated defoliation index; diameter; survival

2

ADAMS, P. R. 2000.

Evaluating the suppression of E. globulus growth by grass weeds

In: Tomkins, Barry (ed.) Workshop on weed control in plantation forestry, University of Melbourne, School of Forestry, Creswick, 23-24 February 2000

Publication type: E DataType: GD
Stand Type: PL

Keywords:

application rate; application timing; biomass - above-ground; establishment techniques; Eucalyptus globulus; fertiliser - application or requirement; fertilisers - nitrogen; herbicide; Holcus lantanas; irrigation; low rainfall site; plant water relations; root systems; Silviculture; site preparation; sorrel; Tasmania; understorey sampling; water availability; water stress; weed competition; weed control; weed species - general list

Data measured:

biomass; DATA - percent grass cover, above ground biomass (weeds), soil and plant water relations (includes nitrogen and ammonium), root systems, E. globulus foliage colour; diameter

3

AFFA FARM FORESTRY PROGRAM, 2000.

Farm Forestry Program projects

Agriculture, Fisheries and Forestry Australia; searched 6 March 2001
(http://www.affa.gov.au/docs/forestry/farm_forestry/section2.html)

Publication type: D DataType:
Stand Type:

Keywords:

research directory

4

AGGANGAN, R. T.; O'CONNELL A. M.; MCGRATH J. F.; AND DELL, B. 1998.

Fertiliser and previous land use effects on C and N mineralisation in soils from Eucalyptus globulus plantations

Soil Biol. Biochem. 30(13): 1791-1798

Publication type: S DataType:
Stand Type: PL

Keywords:

Eucalyptus globulus; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; later age fertiliser; previous land use (effect of); site comparison (within experiment); soil analysis; Western Australia

Data measured:

DATA - soil analysis (pH, organic C, total N and P, microbial respiration, net N mineralisation)

5

AJOY KUMAR K.; REID, N.; ALTER, D.; DORAN, J.; AND WEBER, M. 2000.

Growth, stem splitting and oil yield of Eucalyptus radiata seedlings in their first winter in relation to date of planting and shelter

In: Snell, A. and Vize, S. (eds.) *Proceedings of the Australian Forest Growers conference, "Opportunities for the New Millennium", Cairns convention Centre, 4-6 September 2000, pp.*

Publication type: E DataType: GD
Stand Type: PL

Keywords:

establishment techniques; Eucalyptus radiata; foliar analysis; New South Wales; non-timber product; nutrition - cycling or requirements or analysis; oil production; planting date; shade cloth; Silviculture; tree guard

Data measured:

DATA - air temperature, foliar analysis (N, P, S, K, Mg, Na, Ca, Al, Cu, Fe, Mn, Mb, Zn), number of split trees, oil yield, proportion of monoterpenes and sesquiterpenes; height

6

ALBERTSEN, T.; ECKERSLEY, P.; BLENNERHASSETT, S.; MOORE, R.; AND HINGSTON, B. 2000.

Blue gum timberbelt design for alley farming

A report for the RIRDC/LWRRDC/FWPRDC Joint Venture Agroforestry Program, RIRDC Publication No 00/154, RIRDC Project No DAW-70A

Publication type: E DataType: GD
Stand Type: PL - ALLEY

Keywords:

age of trees (pasture growth); agroforestry; alley belt (timberbelt); economics; edge effect; Eucalyptus globulus; fencing; MODEL; orientation - timberbelt; pasture; Silviculture; site comparison (within experiment); Western Australia

Data measured:

DATA - tree age, no tree rows/belts, dist. from treeline to fence, orientation of pastures, soil profiles to 2 m for major horizons, texture, colour, pH, salinity, soil analysis for N, P, K, pH, total soluble salts and organic C, monthly pasture yield; dbh; height; volume

7

ALLEN, D. 1992.

Blackwood plantations in Tasmania

Tasmanian National Rainforest Conservation Program Report Number: 8, Forestry Commission, Tasmania

Publication type: E DataType: GD
Stand Type: demonstration/routine
management plot
PL

Keywords:

Acacia; Acacia melanoxylon; agroforestry; blackwood; browsing; container grown plants; establishment techniques; Eucalyptus delegatensis; Eucalyptus globulus; Eucalyptus nitens; Eucalyptus obliqua; Eucalyptus regnans; Fabaceae; gymnosperm; mixed species; nurse crop; open root; pest control; Pinus; Pinus radiata; plantation pests; planting stock; provenance trial (only); pruning; REVIEW; Silviculture; site comparison (within experiment); spacing; species/provenance comparison within silv. trial; Tasmania; thinning; tree breeding; tree guard; vertebrate control; vertebrate pests

Data measured:

DATA - percentage seedlings browsed; height; survival

8

ANDERSON, C. A. AND LADIGES, P. Y. 1982.

Lime-chlorosis and the effect of fire on the growth of three seedling populations of *Eucalyptus obliqua* L'Herit

Australian Journal of Botany 30(1): 47-66

Publication type: E DataType:
Stand Type:

Keywords:

burning; calcareous soils; chlorosis; *Eucalyptus obliqua*; fencing; foliar analysis; iron; lime chlorosis; nutrient deficiencies (symptoms); nutrition - cycling or requirements or analysis; plant analysis; plantation pests; provenance trial (only); site comparison (within experiment); soil type; substrate (mine); tree breeding; Victoria

Data measured:

DATA - chlorosis, presence of lignotuber development, field and nursery seedling foliage analysis (Ca, Mg, Na, K, Fe, P), nursery trial: foliage chlorophyll a and b, carotene, plant components oven dry weight, soil analysis (Fe, Ca, Mg, K, Na, P, pH, temp); height; survival

9

ANDERSON, G. 1998.

Woodlots for weed control?

Agroforestry News 7(3): 10-11

Publication type: E DataType:
Stand Type: DS

Keywords:

aerial sowing; establishment techniques; *Eucalyptus cladocalyx*; *Eucalyptus maculata*; *Eucalyptus viminalis*; extension article; fencing; herbicide; *Nassella trichotoma*; pest control; PottiPutki; rabbit; roundup; serrated tussock; simazine; site preparation; species mix (direct seeding); vertebrate pests; Victoria; weed control

Data measured:

DATA - number of seedlings established

10

ANDERSON, G. 1999.

Impact of Autumn gum moth on blue gum provenances

Agroforestry News 8(4): 7

Publication type: A DataType:
Stand Type: PL - ALLEY

Keywords:

agroforestry; alley belt (timberbelt); *Eucalyptus globulus*; extension article; foliage damage; insect pests; pest monitoring; plantation pests; provenance trial (only); Victoria

Data measured:

DATA - percentage foliage damage

11

ANDERSON, G. 2000.

Sugar gum growth at Geelong

Agroforestry News (Spring 2000): 16-17

Publication type:	G	DataType:
Stand Type:	demonstration/routine management plot	

Keywords:

coppice; Eucalyptus astringens; Eucalyptus cladocalyx; Eucalyptus occidentalis; extension article; low rainfall site; serrated tussock; site comparison (across experiments); species comparison (general); Victoria

12

ANDERSON, G. W. AND BATINI, F. E. 1983.

Pasture, sheep and timber production from agroforestry systems with subterranean clover sown under 15-year-old Pinus radiata by a method simulating aerial seeding

Australian Journal of Experimental Agriculture and Animal Husbandry 23: 123-130

Publication type:	E	DataType:
Stand Type:		

Keywords:

agroforestry; gymnosperm; livestock; pasture; Pinus radiata; sheep

13

ANDERSON, G. W.; HAWKE, M.; AND MOORE, R. W. 1985.

Pine needle consumption and bark stripping by sheep grazing annual pastures in young stands of widely-spaced Pinus radiata and P. pinaster

Agroforestry Systems 3: 37-45

Publication type:	E	DataType:
Stand Type:	PL	

Keywords:

agroforestry; bark damage; grazing; gymnosperm; livestock; pasture; Pinus; Pinus pinaster; Pinus radiata; sheep; Silviculture; spacing; Western Australia; wide-spaced trees

Data measured:

DATA - pasture species composition and growth, sheep live weights, pine needle consumption levels, faecal plant dry weight, length and width of bark stripped

14

ANDERSON, G. W. AND MOORE, R. W. 1987.

Productivity in the first seven years of a *Pinus radiata* / annual pasture agroforest in Western Australia

Australian Journal of Experimental Agriculture 27: 231-238

Publication type: E DataType:
Stand Type:

Keywords:

agroforestry; grazing; gymnosperm; pasture; *Pinus*; *Pinus radiata*; products; Western Australia; windbreak

15

ANDERSON, G. W.; MOORE, R. W.; AND JENKINS, P. J. 1988.

The integration of pasture, livestock and widely-spaced pine in South West Western Australia

Agroforestry Systems 6: 195-211

Publication type: G DataType: GD
GEN - Review, discussion or brief article
Stand Type: PL

Keywords:

agroforestry; economics; grazing; gymnosperm; livestock; pasture; *Pinus*; *Pinus radiata*; site comparison (across experiments); spacing; Western Australia; wide-spaced trees

Data measured:

basal area; DATA - light transmitted, pasture produced, livestock carried per *P. radiata* age and densities, relative pasture carrying capacity, soil organic C, total N, P, K; dbh; height

16

ANON. 1990.

Woodlots for salinity mitigation - extract from National Afforestation Program Final Report 1989/90, NAP No. 56 (used for field tour notes)*Australian Forest Soils and Nutrition conference 3 - Pre-conference tour - Irrigation of trees with wastewater in South Australia and adjacent Victoria*

Publication type: E DataType:
Stand Type:

Keywords:

Acacia melanoxylon; Acacia salicina; Acacia stenophylla; Casuarina cunninghamiana; Casuarina glauca; Casuarina obesa; Eucalyptus botryoides; Eucalyptus camaldulensis; Eucalyptus globulus; Eucalyptus gomphocephala; Eucalyptus grandis; Eucalyptus kondininensis; Eucalyptus leucoxylon; Eucalyptus microtheca; Eucalyptus nitens x E. viminalis; Eucalyptus occidentalis; Eucalyptus robusta; Eucalyptus saligna; Eucalyptus sargentii; Eucalyptus sideroxylon; Eucalyptus spathulata; Eucalyptus viminalis; fertiliser - application or requirement; Grevillea robusta; irrigation; irrigation - bore water; irrigation - fresh water; irrigation - saline water; Phoenix sp.; Robinia pseudoacacia; saline site; Salix matsudana; sand; Silviculture; South Australia; Species/provenance/clone/family trial (only)

Data measured:

DATA - water analysis (P, N, TKN, Ca, Mg, Na, K, Bo)

17

ANON. 1993.

A boost from phosphorus*Onwood CSIRO, Winter issue*

Publication type: G DataType:
Stand Type:

Keywords:

extension article; fertiliser - application or requirement; fertilisers - phosphorus;

18

ANON. 1993.

Not enough copper?*Onwood, CSIRO, Winter issue*

Publication type: G DataType:
Stand Type:

Keywords:

extension article; fertiliser - application or requirement; fertilisers - copper; Silviculture

19

ANON. 1994.

Increasing production in regrowth forests

Onwood, CSIRO, 14 (summer issue)

Publication type: G DataType:
Stand Type: NF - regrowth

Keywords:

Eucalyptus sieberi; extension article; fertiliser - application or requirement; Silviculture; thinning

20

ANON. 1995.

Packaged fungi for faster plantation growth

Onwood, CSIRO, 9 (winter issue), CSIRO

Publication type: G DataType:
Stand Type:

Keywords:

Eucalyptus globulus; extension article; inoculation; mycorrhiza; previous land use (effect of); Silviculture; Western Australia

21

ANON. 1995.

Reponse of plantation eucalyptus to water stress

Onwood, CSIRO, 9(Winter issue)

Publication type: G DataType:
Stand Type:

Keywords:

extension article; water availability; water stress

22

ANON. 1995.

Pruning eucalypts grown for sawlogs

Onwood, CSIRO, 9(winter issue)

Publication type: E DataType:
Stand Type:

Keywords:

extension article; pruning; Silviculture

23

ANON. 1997.

Effect of guarding on tree heights

Agroforestry News 6(1)

Publication type: G DataType:
Stand Type:

Keywords:

Allocasuarina verticillata; *Casuarina cunninghamiana*; *Corymbia maculata*; extension article; hare; Silviculture; tree guard; Victoria; wallaby

24

ANON. 1998.

Gains from planting eucalyptus and acacias together

Onwood, CSIRO, 23(Summer issue)

Publication type: G DataType:
Stand Type:

Keywords:

Acacia species; extension article; mixed species; Silviculture; soil amendments

25

ANON. 2000.

Can forestry put wood on acid?

Bush Telegraph (State Forests of New South Wales) Nov 2000-Jan 2001: 17

Publication type: G DataType: GEN - Review, discussion or brief article
Stand Type:

Keywords:

acid sulfate soil; *Eucalyptus grandis*; *Eucalyptus pilularis*; extension article; land degradation; New South Wales; rainforest tree species (native)

26

APPLEGATE, G. B. 1991.

Caribbean pine and pasture on the Atherton Tableland

Agricultural Science 4(4): 33-35

Publication type: G DataType:
Stand Type:

Keywords:

economics; grazing; gymnosperm; pasture; *Pinus caribaea* var. *hondurensis*; Queensland; spacing

27

APPLEGATE, G. B. AND BOROUGH, C. 1998.

Silvicultural management of rainforest plantings

In: Dyason, R.; Dyason, L.; and Garsden, R. (eds.) *Australian Forest Growers biennial conference proceedings 'Plantation and regrowth forestry- a diversity of opportunity', Lismore NSW 6-9th July 1998: State Forests, DPIE, North Forest Products, and Northern Rivers Regional Development Board.* pp. 327-337

Publication type:	G	DataType:	GD GEN - Review, discussion or brief article
Stand Type:	PL		

Keywords:

Cardwellia sublimis; Cedrela angustifolia; Cedrela odorata; establishment techniques; Eucalyptus pellita; Flindersia; Flindersia bourjotiana; Flindersia brayleyana; Flindersia pimenteliana; Grevillea baileyana; Grevillea robusta; Khaya nyasica; mixed species; mulching; mulching - sugarcane bagasse; nurse crop; Queensland; rainforest tree species (exotic); Rainforest tree species (native); Silviculture; Swietenia macrophylla; Tectona grandis; Toona ciliata; tree guard

Data measured:

height

28

APPLEGATE, G. B. AND BRAGG, A. 1991.

Agroforestry and land rehabilitation research for rational land use

Proceedings for the Institute of Tropical Rainforest Studies

Publication type:	G	DataType:	GD GEN - Project description
Stand Type:	demonstration/routine management plot PL		

Keywords:

Cedrela odorata; Eucalyptus cloeziana; Eucalyptus microcorys; Eucalyptus pellita; Eucalyptus raveretiana; Eucalyptus resinifera; Khaya nyasica; Queensland; rainforest tree species (exotic); rainforest tree species (native); Silviculture; teak; Tectona grandis;

Data measured:

dbh; height

29

APPLEGATE, G. B. AND BRAGG, A. L. 1988.

Agroforestry tree species for North Queensland*Paper presented at a conference on "Reforestation on the north coast of N.S.W", 13-14 August, 1988*

Publication type: G DataType: GEN - Review, discussion or brief article
 Stand Type:

Keywords:

Acacia; Acacia mangium; Agathis robusta; agroforestry; Araucaria; Araucaria cunninghamii; Cedrela odorata; Chukrasia tabularis; Cordia alliodora; Elaeocarpus angustifolius; establishment techniques; Flindersia; Flindersia brayleyana; hoop pine; Khaya nyasica; Queensland; rainforest tree species (exotic); rainforest tree species (native); silver quandong; Species trial (only); Swietenia macrophylla; teak; Tectona grandis; Toona ciliata; tree guard

30

APPLEGATE, G. B. AND BRAGG, A. L. 1989.

Improved growth rates of red cedar (Toona australis (F. Muell.) Harms) seedlings in growtubes in north Queensland*Australian Forestry 52(4): 293-297*

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

establishment techniques; growtube; Queensland; rainforest tree species (native); red cedar; Silviculture; tip moth; Toona ciliata; tree guard

Data measured:

DATA - basal diameter, 3 cm above ground; height

31

APPLEGATE, G. B. AND NICHOLSON, D. I. 1986.

Growth rate of selected Acacia species in north and southeast Queensland, Australia.

In: Turnbull, J. W. (Ed.) Australian Acacias for developing countries. Proceedings of an international workshop held at the Forestry Training Centre, Gympie, Queensland, Australia, 4-7 August 1986. ACIAR Proceedings No. 16: 86-88

Publication type: E DataType:
 Stand Type:

Keywords:

Acacia; Queensland

32

APPLEGATE, G. B. AND NICHOLSON, D. I. 1988.

Caribbean pine in an agroforestry system on the Atherton Tableland in north east Australia

Agroforestry Systems 7: 3-15

Publication type: G DataType:
Stand Type: PL

Keywords:

economics; grazing; gymnosperm; pasture; *Pinus caribaea* var. *hondurensis*; Queensland; wide-spaced trees

Data measured:

dbh; height

33

APPLEGATE, G. B. AND ROBSON, K. J. 1994.

Establishment of mixed rainforest species on degraded land - a case study from the coastal lowlands of northeastern Australia

Journal of Tropical Forest Science 7(1): 8-17

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Cardwellia sublimis; establishment techniques; *Eucalyptus pellita*; *Flindersia*; *Flindersia bourjotiana*; *Flindersia brayleyana*; *Flindersia pimenteliana*; *Grevillea baileyana*; land degradation; mixed species; mulching; mulching - sugarcane bagasse; Queensland; rainforest tree species (exotic); rainforest tree species (native); Silviculture; species/provenance comparison within silv. trial; *Toona ciliata*; tree guard

Data measured:

height; survival

34

ARMSTRONG, M. D. 1999.

Effect of growth stresses on the stem and wood characteristics of *Eucalyptus cloeziana* (F. Muell.).

Honours thesis, Department of Forestry, Australian National University, Canberra

Publication type: E DataType:
Stand Type:

Keywords:

Eucalyptus cloeziana; growth stress; wood properties

35

ASHLEY, P. N. AND OZARSKA, B. 2000.

Furniture from young plantation grown eucalypts

In: The future of eucalypts for wood products, Proceedings of IUFRO conference 19-24 March 2000, Launceston, Tasmania, Australia, pp. 150-158

Publication type: W DataType:
Stand Type:

Keywords:

Corymbia; Corymbia maculata; Eucalyptus camaldulensis; Eucalyptus cladocalyx; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus saligna; Eucalyptus sideroxylon; wood - grading; wood density; wood properties

Data measured:

DATA - wood air-dry density, percentage radial and tangential shrinkage, mechanical properties (modulus of elasticity (MOE), modulus of rupture (MOR)), machining trials, surface quality, grading

36

ASHTON, D. H. AND KELLIHER, K. J. 1996.

The effect of soil desiccation on the nutrient status of Eucalyptus regnans F. Muell seedlings

Plant and Soil 179: 45-56

Publication type: E DataType: GD
Stand Type: DS
NURS

Keywords:

Aquasol; establishment techniques; Eucalyptus regnans; fencing; fertiliser - application or requirement; foliar analysis; nutrition - cycling or requirements or analysis; outplanting; Silviculture; soil analysis; soil desiccation; soil type; superphosphate; Victoria

Data measured:

height; survival

37

BACON, G. J.; HAWKINS, P. J.; AND WARD, J. P. 1982.

**Productivity of commercial thinning operations in Queensland plantations:
Influence of alternative silvicultural options**

New Zealand Journal of Forestry Science 12(2): 308-323

Publication type: E DataType: GD
GEN - Review, discussion or brief article
Stand Type: PL

Keywords:

Araucaria; Araucaria cunninghamii; economics; gymnosperm; hoop pine; mounding; Pinus; Pinus caribaea; Pinus elliottii; Queensland; rainforest tree species (native); Silviculture; site preparation; spacing; thinning

Data measured:

basal area; DATA - branch diameter, green crown length and percent, sawlog volume, pulp volume; dbh; predominant height / mean dominant height; volume; yield

38

BAKER, J. 1994.

Landcare - through the Community Rainforest Reforestation Program (CRRP)

In: Faces of Farm Forestry, Proceedings of Australian Forest Growers Conference, Launceston. Australian Forest Growers. pp. 149-154

Publication type: G DataType: GD
GEN - Review, discussion or brief article
Stand Type:

Keywords:

Agathis robusta; agroforestry; black bean; Castanospermum australe; Cedrela angustifolia; Cedrela odorata; Elaeocarpus grandis; establishment techniques; Flindersia; Flindersia bourjotiana; Flindersia brayleyana; Flindersia pimenteliana; Flindersia schottiana; kauri; Khaya nyasica; policy; Queensland; queensland maple; rainforest tree species (exotic); rainforest tree species (native); silver quandong; Species trial (only); teak; Tectona grandis; tree guard

Data measured:

height

39

BAKER, T. G.; ARNOLD, R. J.; AND MARCAR, N. E. 2000.

Species performance, genetic variation and salt tolerance

In: George, B. H. (ed), Commercial and environmental values of farm forestry in the Murray-Darling Basin irrigation areas. Proceedings of workshop held at Deniliquin, New South Wales, July 1999, Research and Development Division, State Forests of New South Wales, Technical Paper No. 65, pp. 1-12

Publication type:	E	DataType:	GD
			GEN - Review, discussion or brief article
Stand Type:	PL		

Keywords:

Casuarina cunninghamiana; Corymbia; Corymbia henryi; Corymbia maculata; Corymbia variegata; Eucalyptus benthamii; Eucalyptus camaldulensis; Eucalyptus dunnii; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus saligna; gymnosperm; irrigation; irrigation - effluent; New South Wales; Pinus radiata; Populus; Populus deltoides x P. nigra; provenance trial (only); saline site; site comparison (across experiments); South Australia; Species/provenance/clone/family trial (only); Victoria; Western Australia

Data measured:

height

40

BAKER, T.; BAIL, I.; BORSCHMANN, R.; HOPMANS, P.; MORRIS, J.; NEUMANN, F.; STACKPOLE, D.; AND FARROW, R. 1994.

Commercial tree-growing for land and water care. 2: Trial objectives and design for the pilot sites

Trees for Profit Research Centre, University of Melbourne, January 1994

Publication type:	E	DataType:
Stand Type:	PL	

Keywords:

establishment techniques; pruning; Silviculture; thinning; Victoria

41

BALKS, M. R.; BOND, W J; AND SMITH, C. J. 1998.

Effects of sodium accumulation on soil physical properties under an effluent-irrigated plantation

Australian Journal of Soil Research 36: 821-30

Publication type: S DataType:
Stand Type: PL

Keywords:

Eucalyptus grandis; irrigation; irrigation - bore water; irrigation - effluent; Pinus radiata; sewage effluent; Silviculture; soil analysis; species/provenance comparison within silv. trial

Data measured:

DATA - soil exchangeable sodium percentage (ESP), dispersion index, saturated hydraulic conductivity

42

BALODIS, V. AND GARLAND, C. P. 1995.

Kraft pulping of Eucalyptus grandis from Gympie provenance and fertilizer

In: The potential for plantations of Eucalyptus grandis in coastal Queensland. A report on Eucalyptus grandis for Shell Australia, July 1995, 24 pp.

Publication type: W DataType:
Stand Type: PL

Keywords:

economics; establishment techniques; Eucalyptus grandis; fertiliser - application or requirement; pulpwood production; Queensland; Silviculture; species/provenance comparison within silv. trial; wood density; wood properties

Data measured:

DATA - pulp (yield, evaluation and paper properties), individual trees (dbh, height and volume), basic and bulk density, dry matter yield, physical and chemical analyses of wood meal

43

BANHAM, P. W.; RUSSELL, S. L.; HETHERINGTON, S. J.; AND BEADLE, C. L. 1997.

Effects of irrigation on E. nitens and E. globulus grown on a low rainfall site

Australian Newsprint Mills Research report R96-8

Publication type: E DataType:
Stand Type: PL

Keywords:

Eucalyptus globulus; Eucalyptus nitens; irrigation; low rainfall site

44

BARBOUR, L. 2000.

Tannin and fuel wood from plantation grown bipinnate acacias

A report for the RIRDC/LWRRDC/FWPRDC joint Venture Agroforestry Program; RIRDC publication No 00/47, RIRDC project DCL-3A

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Acacia; Acacia dealbata; Acacia deanei; Acacia decurrens; Acacia elata; Acacia filicifolia; Acacia fulva; Acacia glaucocarpa; Acacia irrorata; Acacia mearnsii; Acacia parramattensis; Acacia silvestris; Acacia trachyphloia; fuelwood; multipurpose trees; non-timber product; seed treatment; site comparison (within experiment); Species/provenance/clone/family trial (only); tannin; Western Australia; wood properties

Data measured:

dbh; height; survival

45

BARRON, P. P.; DALTON, G. S.; AND MILLER, L. 1998.

Second-year weed control for direct seeding of Eucalyptus porosa in a low rainfall environment

Australian Forestry 61(2): 155-158

Publication type: E DataType: GD
Stand Type: DS

Keywords:

application rate; atrazine; Eucalyptus porosa; glyphosate; herbicide; low rainfall site; pendimethalin; Silviculture; simazine; South Australia; Stomp; weed control; weed control - second year

Data measured:

DATA - herbicide efficacy, crop tolerance scores, diameter increment; diameter

46

BASHFORD, R. 1992.

Observations on the life history of two sap-feeding coreid bugs and their impact on growth of plantation eucalypts*Tasforests 4: 87-93*

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

Amorbus obscuricornis; Chrysomelidae; Coreidae; Eucalyptus delegatensis; Eucalyptus nitens; Eucalyptus obliqua; Eucalyptus regnans; foliage damage; Gelonus tasmanicus; Heteroptera; insect pests; insecticide; pest control; plantation pests; Ripcord; Silviculture; Tasmania

Data measured:

DATA - height increment, number of species, life history and effects of coreid feeding, number of insects

47

BATEY, T. AND MORRIS, J. 1996.

Monitoring groundwater and soil conditions at the Trees for Profit pilot sites*Trees for Profit Research Centre, University of Melbourne, August 1996*

Publication type: S DataType:
 Stand Type: PL

Keywords:

groundwater table; soil analysis; Victoria

48

BATTAGLIA, M.; BEADLE, C.; AND LOUGHHEAD, S. 1996.

Photosynthetic temperature responses of Eucalyptus globulus and Eucalyptus nitens*Tree Physiology 16: 81-89*

Publication type: P DataType:
 Stand Type: PL

Keywords:

Eucalyptus globulus; Eucalyptus nitens; irrigation; photosynthetic response; physiology; plant water relations; species/provenance comparison within silv. trial; Tasmania; temperature response; water availability; water use

Data measured:

DATA - net CO₂ and water vapour exchange, leaf temperature, air temperature, model photosynthetic temperature response; calculated: stomatal and intracellular CO₂

49

BEADLE, C. 2000.

Testing thinning options for eucalypt plantations*OnWood* 13: 4

Publication type: G DataType: GEN - Review, discussion or brief article

Stand Type: PL

Keywords:

Eucalyptus nitens; extension article; Silviculture; site comparison (across experiments); Tasmania; thinning

Data measured:

DATA - crown structure, leaf area, photosynthetic activity, uptake of water and nutrients

50

BEADLE, C. L.; BANHAM, P. W.; WORLEDGE, D.; RUSSELL, S. L.; HETHERINGTON, S. J.; HONEYSETT, J. L.; AND WHITE, D. A. 1997.

Irrigation increases growth and improves fibre quality of Eucalyptus globulus and Eucalyptus nitens (Abstract)*Proceedings IUFRO Conference on silviculture and improvement of eucalypts, Salvadore, Brazil 24-29 August 1997; Centro Nacional de Pesquisa de Florestas (4 vols) EMBRAPA, Colombo; 4. Environmental and social impacts of eucalypt plantations, p. 154*

Publication type: G DataType:

Stand Type:

Keywords:

Eucalyptus globulus; Eucalyptus nitens; irrigation; Silviculture; species/provenance comparison within silv. trial; Tasmania; wood fibre; wood properties

51

BEADLE, C. L.; BANHAM, P. W.; WORLEDGE, D.; RUSSELL, S. L.; HETHERINGTON, S. J.; HONEYSETT, J. L.; AND WHITE, D. A. 2001.

Irrigation increases growth and improves fibre quality of Eucalyptus globulus and Eucalyptus nitens*Appita Journal*

Publication type: E & W DataType:

Stand Type: PL

Keywords:

Eucalyptus globulus; Eucalyptus nitens; irrigation; Silviculture; Tasmania; wood fibre; wood properties

52

BEADLE, C. L.; HONEYSETT, J. L.; TURNBULL, C. R. A.; AND WHITE, D. A. 1995.

Site limits to achieving genetic potential

In: Potts B. M. et al. (eds.) CRC-IUFRO Proceedings: Eucalypt plantations: improving fibre yield and quality, CRC Temperate Hardwood Forestry, Hobart; pp. 325-330.

Publication type: G DataType:
Stand Type:

Keywords:

Eucalyptus globulus; Eucalyptus nitens; genotype; irrigation; species/provenance comparison within silv. trial; Tasmania

53

BEADLE, C. AND MOHAMMED, C. 1999.

Pruning for plantation sawlogs: growth response to pruning of Eucalyptus

Agroforestry News 8(3): 14-15

Publication type: G DataType: GEN - Review, discussion or brief article
Stand Type: PL

Keywords:

Eucalyptus nitens; extension article; fungal disease; plantation pests; pruning; sawlogs; Silviculture; site comparison (within experiment); Tasmania

Data measured:

DATA - height increment

54

BEADLE, C.; PINKARD, E.; AND MEDHURST, J. 2000.

Blackwood - the problem of controlling form in plantation systems

In: Cooperative Research Centre for Sustainable Production Forestry Pruning and thinning workshop (Collated handouts), held at Queensland Forestry Research Institute, Gympie 3-5 May 2000

Publication type: E DataType: GEN - Experiment design
Stand Type: PL

Keywords:

Acacia; Acacia melanoxylon; gymnosperm; mixed species; nurse crop; Pinus; Pinus radiata; pruning; pruning method; Silviculture; Tasmania; thinning

55

BEADLE, C. L.; TURNBULL, C. R. A.; AND MCLEOD, R. 1994.

An assessment of growth and form for pruning to six metres in *Eucalyptus nitens* plantations*Tasforests* 6: 1-6

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:altitude; *Eucalyptus nitens*; pruning; sawlogs; Silviculture; site comparison (within experiment); site index; Tasmania**Data measured:**

DATA - form for pruning score; dbh; height; plant morphology; tree form

56

BEADLE, C. L.; TURNBULL, C. R. A.; OTTENSCHLAEGER, M. L.; AND MCLEOD, R.

Maximising the growth of *Eucalyptus nitens* in plantation monoculture*In: Faces of Farm Forestry, Proceedings of Australian Forest Growers Conference, Launceston, pp. 87-94*

Publication type:	G	DataType:	GD
Stand Type:	PL		

Keywords:altitude; application timing; atrazine; establishment techniques; *Eucalyptus nitens*; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; fertilisers - urea; foliar analysis; herbicide; nutrition - cycling or requirements or analysis; Silviculture; site comparison (within experiment); soil analysis; Tasmania; weed control; weed control - manual**Data measured:**

DATA - volume increment, soil analysis (organic carbon, total N, and extractable P), foliar analysis (N and P), CAI; diameter; height; survival; volume

57

BEETSON, T. B.; TAYLOR, D. W.; AND NESTER, M. R. 1991.

Effect of treeshelters on the early growth of four Australian tree species*Australian Forestry* 54(1&2): 60-65

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:Araucaria; *Araucaria cunninghamii*; *Casuarina cunninghamiana*; establishment techniques; *Eucalyptus cloeziana*; *Grevillea robusta*; Queensland; rainforest tree species (native); Silviculture; site comparison (within experiment); soil type; species/provenance comparison within silv. trial; tree guard**Data measured:**

DATA - diameter at ground level; diameter; height

58

BELL, D. T.; MCCOMB, J. A.; VAN DER MOEZEL, P. G.; BENNETT, I. J.; AND KABAY, E. D. 1994.

Comparisons of selected and cloned plantlets against seedlings for rehabilitation of saline and waterlogged discharge zones in Australian agricultural catchments

Australian Forestry 57: 69-75

Publication type:	E	DataType:	GD
Stand Type:	NURS PL		

Keywords:

Casuarina glauca; Casuarina obesa; clones; Eucalyptus camaldulensis; Eucalyptus spathulata ssp. spathulata; land degradation; planting stock; saline site; salinity comparison; Species/provenance/clone/family trial (only); tree breeding; waterlogging; Western

Data measured:

survival

59

BELL, R. E.; APPLGATE, G. B.; RYAN, P. A.; AND TURNBULL, J. W. 1991.

Species trials of some acacias in tropical dryland Queensland, Australia

In: Turnbull, J.W. (ed.) Advances in tropical acacia research. Proceedings of an international workshop held in Bangkok, Thailand, 11-15 February 1991. ACIAR Proceedings Series. 1991, No. 35: 194-200, Australian Centre for International Agricultural Research; Canberra, Australia

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Acacia; Acacia ampliceps; Acacia aneura; Acacia auriculiformis; Acacia bancroftii; Acacia brassii; Acacia cincinnata; Acacia concurrens; Acacia crassa subsp. crassa; Acacia crassica; Acacia difficilis; Acacia georginae; Acacia glaucocarpa; Acacia harpophylla; Acacia hemignosta; Acacia holosericea; Acacia latescens; Acacia leptocarpa; Acacia penninervis; Acacia platycarpa; Acacia plectocarpa; Acacia ramulosa; Acacia salicina; Acacia shirleyi; Acacia simsii; Acacia stenophylla; Acacia storyi; Acacia torulosa; Acacia tumida; Acacia umbellata; Acacia victoriae; agroforestry; Casuarina cunninghamiana; Eucalyptus argophloia; Eucalyptus camaldulensis; Eucalyptus cambageana; Eucalyptus microtheca; Fabaceae; irrigation; low rainfall site; Queensland; Silviculture; site comparison (within experiment); soil type; Species/provenance/clone/family trial (only); tree breeding

Data measured:

diameter; height; survival

60

BELL, R. W.; SCHOFIELD, N. J.; LOH, I. C.; AND BARI, M. A. 1990.

Groundwater response to reforestation in the Darling Range of Western

Journal of Hydrology Amsterdam 115(1-4): 297-317

Publication type: E DataType:
Stand Type:

Keywords:

agroforestry; Eucalyptus camaldulensis; Eucalyptus globulus; Eucalyptus rudis; Eucalyptus wandoo; groundwater level; groundwater table; gymnosperm; Pinus; Pinus pinaster; Pinus radiata; Protection Forestry; salinity comparison; Silviculture; Silvopastoral systems; Western Australia

61

BENNETT, D. AND GEORGE, R. 1996.

River red gum (E. camaldulensis) for farm forestry on saline and waterlogged land in south-western catchments of Western Australia?

Proc. 4th national conference and workshop on the productive use and rehabilitation of saline lands, Albany, Western Australia, March 25-30, 1996

Publication type: E DataType:
Stand Type:

Keywords:

Eucalyptus camaldulensis; saline site; waterlogging; Western Australia

62

BENNETT, L. T.; WESTON, C. J.; AND ATTIWILL, P. M. 1997.

Biomass, nutrient content and growth response to fertilisers of six-year-old Eucalyptus globulus plantations at three contrasting sites in Gippsland,

Australian Journal of Botany 45(1): 103-121

Publication type: E DataType: GD
Stand Type: PL

Keywords:

application rate; biomass - above-ground; biomass production; Eucalyptus globulus; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - nitrogen - phosphorus - potassium; fertilisers - phosphorus; fertilisers - potassium; foliar analysis; nutrition - cycling or requirements or analysis; phosphorus nitrogen ratio; plant analysis; Silviculture; site comparison (within experiment); soil type; trace elements; Victoria

Data measured:

biomass; DATA - tree components Ca and Mg, total N, P and K, Volume estimate, diameter ground level and 2 m intervals; dbh; height; leaf area; volume

63

BENNETT, L. T.; WESTON, C. J.; JUDD, T. S.; ATTIWILL, P. M.; AND WHITEMAN, P.

The effects of fertilizers on early growth and foliar nutrient concentrations of three plantation eucalypts on high quality sites in Gippsland, southeastern Australia*Forest Ecology and Management* 89: 213-226

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

application rate; Eucalyptus globulus; Eucalyptus nitens; Eucalyptus regnans; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - nitrogen - phosphorus - potassium; fertilisers - phosphorus; fertilisers - potassium; foliar analysis; nutrition - cycling or requirements or analysis; phosphorus nitrogen ratio; plant analysis; Silviculture; site comparison (within experiment); soil type; species/provenance comparison within silv. trial; trace elements; Victoria

Data measured:

DATA - foliar analysis (Ca, Mg, total N, P and K); dbh; height; volume

64

BENSON, M. L.; LANDSBERG, J. J.; AND BOROUGH, C. J. 1992.

The Biology of Forest Growth experiment: an introduction*Forest Ecology and Management* 52: 1-16

Publication type:	E	DataType:	GD
			GEN - Project description
Stand Type:	PL		

Keywords:

Australian Capital Territory; cold climate site; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - nitrogen and phosphorus; fertilisers - phosphorus; foliar analysis; gymnosperm; irrigation; irrigation - effluent; irrigation - fresh water; later age fertiliser; low rainfall site; MODEL; nutrient analysis; nutrition - cycling or requirements or analysis; Pinus radiata; plant water relations; sewage effluent; Silviculture; soil analysis; water stress

Data measured:

basal area; biomass; DATA - soil water content, pre-dawn needle water potential, rainfall interception, temporal fluxes of immobilisation, mineralisation, plant uptake and leaching of nitrogen, soil chemical properties, leaf N, biomass, phenology, basal area increment; dbh; height; volume

65

BENSON, M. L.; MYERS, B. J.; AND RAISON, R. J. 1992.

Dynamics of stem growth of *Pinus radiata* as affected by water and nitrogen supply*Forest Ecology and Management* 52: 117-137

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Australian Capital Territory; cold climate site; fertiliser - application or requirement; foliar analysis; gymnosperm; irrigation; irrigation - fresh water; later age fertiliser; low rainfall site; physiology; *Pinus radiata*; plant analysis; plant water relations; sewage effluent; Silviculture; water availability; water stress; water use

Data measured:

basal area; DATA - hourly rainfall, rainfall interception, air temperature, soil water content, pre-dawn leaf water potential; leaf N, biomass, seasonal new foliage production, needle litter N concentration, daily diameter increment, basal area increment; dbh

66

BENYON, R. G.; HUTCHINSON, D.; STEWART, H. T. L.; AND O'SHAUGHNESSY, P. J.

Establishment of eucalypt plantations irrigated with sewage at Werribee, Victoria

In: Ryan, P. J. (ed.) Third Australian Forest Soils and Nutrition Conference, "Productivity in Perspective", 7-11 October 1991, Melbourne, Forestry Commission of NSW, Sydney, pp. 107-108

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Eucalyptus camaldulensis; *Eucalyptus globulus* subsp. *globulus*; *Eucalyptus grandis*; *Eucalyptus saligna*; irrigation; irrigation - effluent; *Pinus*; *Pinus radiata*; *Populus*; pruning; sewage effluent; Silviculture; site comparison (within experiment); soil type; spacing; species/provenance comparison within silv. trial; stand density; thinning; Victoria

Data measured:

height; survival

67

BENYON, R. G.; MARCAR N. E. CRAWFORD D. F.; AND NICHOLSON A. T. 1999.

Growth and water use of *Eucalyptus camaldulensis* and *E-occidentalis* on a saline discharge site near Wellington, NSW, Australia

Agricultural Water Management 39(2-3): 229-244

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Eucalyptus camaldulensis; *Eucalyptus occidentalis*; groundwater table; low rainfall site; New South Wales; physiology; plant water relations; saline site; salinity comparison; Silviculture; species/provenance comparison within silv. trial; transpiration; water use

Data measured:

basal area; DATA - root zone salinity (EM38), crown and branch diameter, height to base of canopy, leaf biomass, branch and leaf fresh weight, leaf area per branch, sapwood thickness, sap velocity, wood and water volume fractions; dbh; height; survival

68

BENYON, R. G.; MYERS, B. J.; AND THEIVEYANATHAN, S. 1996.

Transpiration rates of irrigated flooded gum and radiata pine plantations

In: Dyason, R.; Dyason, L.; and Garsden, R. (eds.) Australian Forest Growers biennial conference proceedings 'Plantation and regrowth forestry- a diversity of opportunity', Lismore NSW 6-9th July 1998 p. 287 (abstract)

Publication type: P DataType: GD
Stand Type:

Keywords:

Eucalyptus grandis; irrigation; irrigation - effluent; low rainfall site; New South Wales; physiology; *Pinus*; *Pinus radiata*; plant water relations; sewage effluent; Silviculture; transpiration; water balance; water use

Data measured:

basal area; DATA - transpiration rates (sap flow meters), fortnightly water balance; predominant height / mean dominant height

69

BEVEGE, D. I. AND RICHARDS, B. N. 1970.

Nitrogen in the growth of *Araucaria cunninghamii* Ait. underplanted in *Pinus* stands*Ecology* 51(1): 134-42

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

adjacent species; *Araucaria*; *Araucaria cunninghamii*; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; foliar analysis; gymnosperm; hoop pine; mixed species; nurse crop; nutrition - cycling or requirements or analysis; *Pinus*; *Pinus elliotii*; *Pinus taeda*; Queensland; rainforest tree species (native); Silviculture;

Data measured:

basal area; DATA - girth, basal area, predom ht and volume increment; crown diameter, foliar N concentration, N immobilization; dbh; predominant height / mean dominant height; volume

70

BIDDISCOMBE, E. F.; ROGERS, A. L.; GREENWOOD, E. A. N.; AND DEBOER, E. S.

Establishment and early growth of species in farm plantations near salt seeps*Australian Journal of Ecology* 6: 383-389

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

agroforestry; *Angophora costata*; *Atriplex*; *Atriplex rhagodioides*; *Casuarina obesa*; *Ceratonia siliqua*; *Eucalyptus camaldulensis*; *Eucalyptus cladocalyx*; *Eucalyptus cladocalyx* var. *nana*; *Eucalyptus condininensis*; *Eucalyptus crebra*; *Eucalyptus flocktoniae*; *Eucalyptus globulus*; *Eucalyptus globulus* subsp. *globulus*; *Eucalyptus haemotoxylon*; *Eucalyptus leucoxylon* subsp. *leucoxylon*; *Eucalyptus loxophleba*; *Eucalyptus maculata*; *Eucalyptus melliodora*; *Eucalyptus occidentalis*; *Eucalyptus patens*; *Eucalyptus platypus* var. *heterophylla*; *Eucalyptus robusta*; *Eucalyptus saligna*; *Eucalyptus sargentii*; *Eucalyptus spathulata*; *Eucalyptus spathulata* ssp. *spathulata*; *Eucalyptus wandoo*; gymnosperm; *Liquidambar styraciflua*; low rainfall site; *Pinus*; *Pinus canariensis*; saline site; site comparison (within experiment); slope; Species trial (only); *Tamarix articulata*; *Tipuana tipu*; Western Australia

Data measured:

DATA - canopy diameter, leaf area; height; leaf area; survival

71

BIDDISCOMBE, E. F.; ROGERS, A. L.; GREENWOOD, E. A. N.; AND DE BOER E. S.

Growth of tree species near salt seeps, as estimated by leaf area, crown volume and height

Australian Forest Research 15: 141-154

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Acacia; Acacia cyanophylla; Acacia microbotrya; agroforestry; Atriplex; Atriplex rhagodioides; Casuarina obesa; Eucalyptus astringens; Eucalyptus camaldulensis; Eucalyptus cladocalyx; Eucalyptus cladocalyx var. nana; Eucalyptus condininensis; Eucalyptus crebra; Eucalyptus flocktoniae; Eucalyptus globulus; Eucalyptus globulus subsp. globulus; Eucalyptus haemotoxylon; Eucalyptus leucoxylon; Eucalyptus leucoxylon subsp. leucoxylon; Eucalyptus loxophleba; Eucalyptus maculata; Eucalyptus melliodora; Eucalyptus occidentalis; Eucalyptus patens; Eucalyptus platypus var. heterophylla; Eucalyptus redunca var. melanophloia; Eucalyptus robusta; Eucalyptus saligna; Eucalyptus sargentii; Eucalyptus spathulata ssp. spathulata; Eucalyptus wandoo; gymnosperm; low rainfall site; Pinus; Pinus canariensis; saline site; site comparison (within experiment); slope; Species trial (only); Western Australia

Data measured:

DATA - crown diameter and maximum depth, crown profiles, soil chloride content, LAI (Eucalypts only); height; leaf area; survival

72

BIRD, P. R. 2000.

Farm forestry in southern Australia: a focus on clearwood production of specialty timbers*Agriculture Victoria, Department of Natural Resources and Environment, Victoria, 264 pp.*

Publication type:	E	DataType:	GD
			GEN - Review, discussion or brief article
Stand Type:	DS		
	PL		

Keywords:

Acacia; Acacia mearnsii; Acacia melanoxylon; agroforestry; alley belt (timberbelt); Allocasuarina luehmannii; Allocasuarina verticillata; Casuarina cunninghamiana; Casuarina glauca; Corymbia henryi; Corymbia maculata; Corymbia variegata; Cupressus lusitanica; Cupressus macrocarpa; cypress; establishment techniques; Eucalyptus bosistoia; Eucalyptus bosistoana; Eucalyptus camaldulensis; Eucalyptus cladocalyx; Eucalyptus cornuta; Eucalyptus cypellocarpa; Eucalyptus globulus subsp. bicostata; Eucalyptus grandis; Eucalyptus leucoxylon; Eucalyptus melliodora; Eucalyptus moluccana; Eucalyptus nitens; Eucalyptus occidentalis; Eucalyptus polyanthemus; Eucalyptus saligna; Eucalyptus sideroxylon; Eucalyptus tereticornis; Eucalyptus tricarpa; extension article; financial; gymnosperm; hare; insect pests; irrigation; livestock; mensuration technique; mounding; multipurpose trees; mycorrhiza; New South Wales; nutrient deficiencies (symptoms); Pinus; Pinus brutia; Pinus pinaster; Pinus radiata; plantation pests; planting method; planting stock; pruning; Queensland; rabbit; repellents; rhizobia; ripping; saline site; sheep; shelter (wind or cold); Silviculture; site preparation; site selection; South Australia; spacing; species comparison (general); species/provenance comparison within silv. trial; stand design; Tasmania; thinning; tree guard; vertebrate pests; Victoria; weed control; weed control - second year; Western Australia; wood properties; wood uses (general)

Data measured:

basal area; diameter; height; tree form

73

BIRD, P. R.; CAYLEY, J. W. D.; KEARNEY, G. A.; AND ALDRIDGE, E. K. 1994.

Pasture growth among various tree species grown at various spacing*In: Faces of Farm Forestry, Proceedings of Australian Forest Growers Conference, Launceston, pp. 297-300.*

Publication type:	O	DataType:	GD
Stand Type:	PL		

Keywords:

agroforestry; Casuarina cunninghamiana; Eucalyptus camaldulensis; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus maculata; Eucalyptus ovata; Eucalyptus tereticornis; Eucalyptus viminalis; grazing; gymnosperm; pasture; Pinus; Pinus radiata; Silviculture; site comparison (within experiment); spacing; Victoria; wide-spaced trees

Data measured:

DATA - pasture height to estimate pasture growth; height

74

BIRD, P. R.; JOWETT, D. W.; JACKSON, T. T.; KEARNEY, G. A.; WATERS, M. J.; AND MEASKI, B. 2000.

Early growth responses of blue gums on the basaltic plains to ripping, mounding and fertiliser application

Australian Journal of Experimental Agriculture 40: 987-994

Publication type: E DataType: GD
Stand Type: PL

Keywords:

establishment techniques; Eucalyptus globulus subsp. globulus; fertiliser - application or requirement; fertilisers - nitrogen - phosphorus - potassium; foliar analysis; low rainfall site; mounding; nutrition - cycling or requirements or analysis; Pivot 800; ripping; Silviculture; site comparison (within experiment); site preparation; soil analysis; soil type; species/provenance comparison within silv. trial; Victoria; waterlogging

Data measured:

DATA - soil analysis (P, K, S, pH, Ca, Mg, Na, EC, physical analysis), leaf analysis (N, S, P, K, Ca, Mg, Na, Fe, Mn, Zn, Cu, B); diameter; height; volume

75

BIRD, P. R.; KEARNEY, G. A.; ALDRIDGE, E. K.; AND RALEIGH, R. 1996.

Blackwood provenance and layout comparison in SW Victoria

In: Growing Australian blackwood Acacia melanoxylon for timber. A national strategic workshop for growers, processors and researchers, 20-22 November 1996, Lorne, Victoria. Workshop supported by RIRDC/LWRRDC/FWPRDC Joint Venture Agroforestry Program. Hosted by School of Forestry and Resource Conservation, CSIRO Forestry and Forest Products and Otway

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Acacia; Acacia melanoxylon; blackwood; inoculation; mixed species; nurse crop; provenance trial (only); Silviculture; site comparison (within experiment); Victoria

Data measured:

height; survival

76

BIRD, P. R.; KEARNEY, G. A.; AND JOWETT, D. W. 1996.

Agroforestry species assessment

In: Trees and shrubs for south west Victoria, Technical Report series No. 205, Agriculture Victoria, p. 172

Publication type: E DataType: GD
Stand Type:

Keywords:

pruning; Victoria

77

BIRD, P. R.; KEARNEY, G. A.; AND JOWETT, D. W. 1996.

Tree planting on saline discharge sites

In: Trees and shrubs for south west Victoria, Technical Report series No. 205, Agriculture Victoria, pp 121-125

Publication type: E DataType:
Stand Type:

Keywords:

saline site; Victoria

78

BIRD, P. R.; KEARNEY, G. A.; AND JOWETT, D. W. 1996.

Direct seeding of trees - research

In: Trees and shrubs for south west Victoria, Technical Report series No. 205, Department of Agriculture, Victoria, Australia, pp 69-80

Publication type: E DataType:
Stand Type: DS

Keywords:

herbicide; Victoria; weed control

79

BIRD, P. R.; KELLAS, J. D.; CUMMING, K. N.; AND KEARNEY, G. A. 1992.

Producing wool and timber in an agroforestry system

Proceedings of the Australian Society of Animal Production 19: 365-367

Publication type: E DataType:
Stand Type:

Keywords:

agroforestry; gymnosperm; livestock; sheep; Victoria

80

BIRD, P. R.; KELLAS, J. D.; KEARNEY, G. A.; AND CUMMING, K. N. 1995.

Animal production under a series of Pinus radiata - pasture agroforestry systems in south-west Victoria, Australia

Australian Journal of Agricultural Research 46: 1299-1310

Publication type: O DataType: GD
Stand Type: PL - ALLEY

Keywords:

agroforestry; alley belt (timberbelt); damage by livestock; grazing; gymnosperm; livestock; pasture; Pinus; Pinus radiata; Silviculture; spacing; Victoria; wide-spaced trees; wind damage

Data measured:

DATA - pasture mass, sheep live weight gain and wool production; diameter; height

81

BIRD, R. AND RALEIGH, R. 1997.

Early growth responses of blue gums on the basalt plains to ripping, mounding and fertiliser application

Agroforestry News 6(4): 16-17

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Eucalyptus globulus; fertiliser - application or requirement; fertilisers - nitrogen - phosphorus - potassium; mounding; provenance trial (only); ripping; Silviculture; site comparison (within experiment); site preparation; soil type; Victoria

Data measured:

height

82

BIRK, E. M. AND TURNER, J. 1992.

Response of flooded gum (*E. grandis*) to intensive cultural treatments: biomass and nutrient content of eucalypt plantations and native forests

Forest Ecology and Management 47(1-4): 1-28

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Acacia; biomass production; establishment techniques; Eucalyptus grandis; Fabaceae; fertiliser - application or requirement; fertilisers - nitrogen - phosphorus - potassium; fertilisers - NPKS; foliar analysis; glyphosate; herbicide; insecticide; malathion; New South Wales; nutrient analysis; nutrition - cycling or requirements or analysis; organophosphorus herbicides; pest control; pesticides; plant analysis; Propazine; Rogor; Roundup; Silviculture; Starter 15 (fertiliser); treatment repetition; understorey sampling; weed control; weed control - manual

Data measured:

basal area; biomass; DATA - tree component and understorey samples for nutrient analysis, - N, P K, Ca, and Mg, tree component biomass; dbh; height; volume

83

BOLLAND, L. 1984.

Phellinus noxius: cause of a significant root-rot in Queensland hoop pine plantations*Australian Forestry* 47(1): 2-10

Publication type:	A	DataType:
Stand Type:	PL	

Keywords:

Araucaria; Araucaria cunninghamii; fungal disease; gymnosperm; host preference; inoculation; pathogen; plantation pests; Queensland; rainforest tree species (native); root and butt rots; root disease; second rotation; Silviculture

Data measured:

DATA - laboratory culture: micromorphology, response to pH, temperature; extent of fungal spread; stump infection and decay; spatial distribution of sapling mortality after 2R planting

84

BONNY, L. 1991.

Growth of a Eucalyptus grandis plantation following intensive silvicultural treatment applied in the first six years*Forestry Commission NSW, Research Paper No. 12*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

dimethoate; establishment techniques; Eucalyptus grandis; fertiliser - application or requirement; fertilisers - NPKS; glyphosate; herbicide; insecticide; malathion; Metasystox; New South Wales; Nuvacron; organophosphorus herbicides; organothiophosphate insecticides; pest control; pesticides; ploughing; Propazine; pulpwood production; Rogor; Roundup; Silviculture; site preparation; Starter 15 (fertiliser); stem injection; thinning; treatment repetition; weed control; weed control - manual

Data measured:

DATA - diameter increment; diameter; height; volume

85

BORSCHMANN, G. R. AND JOHNSTON, J. B. 199?.

An assessment of tree trial plots in the Lockyer and Fassifern Valleys*Produced with the assistance of the Commonwealth Government and the Australian National Parks and Wildlife Service through the One Billion Trees Program. Greening Australia -*

Publication type:	E	DataType:	GD
Stand Type:	demonstration/routine management plot PL		

Keywords:

Acacia; Acacia salicina; Araucaria; Araucaria bidwillii; Araucaria cunninghamii; Casuarina cunninghamiana; Casuarina equisetifolia; Eucalyptus acmenoides; Eucalyptus andrewsii subsp. andrewsii; Eucalyptus andrewsii subsp. campanulata; Eucalyptus argophloia; Eucalyptus camaldulensis; Eucalyptus citriodora; Eucalyptus cloeziana; Eucalyptus crebra; Eucalyptus drepanophylla; Eucalyptus dunnii; Eucalyptus grandis; Eucalyptus ligustrina; Eucalyptus maculata; Eucalyptus microcorys; Eucalyptus moluccana; Eucalyptus nova-anglica; Eucalyptus odorata; Eucalyptus pilularis; Eucalyptus propinqua; Eucalyptus resinifera; Eucalyptus robusta; Eucalyptus saligna; Eucalyptus sideroxylon; Eucalyptus tereticornis; Eucalyptus torelliana; Eucalyptus umbra; Eucalyptus viminalis; Flindersia; Flindersia australis; Flindersia brayleyana; Grevillea banksii; Grevillea robusta; gymnosperm; Melaleuca linariifolia; Melaleuca nodosa; Mimosa scabrella; mixed species; other tree species not listed; Pinus; Pinus caribaea; Pinus elliotii; Pinus taeda; Queensland; Queensland maple; Rainforest tree species (native); red cedar; Silviculture; Species/provenance/clone/family trial (only); Toona ciliata

Data measured:

dbh; height; survival

86

BORSCHMANN, G. R. AND LAMB, D. 1998.

Plantation performance of 16 rainforest cabinet timber trees grown in polyculture*Australian Forest Grower 21(2): 3-6*

Publication type:	E	DataType:	GD
Stand Type:	demonstration/routine management plot PL		

Keywords:

Acacia; Acacia melanoxylon; Araucaria; Araucaria cunninghamii; Argyrodendron trifoliolatum; black bean; Castanospermum australe; Cedrela; Cedrela odorata; Cryptocarya erythroxylon; Dysoxylum fraserianum; Dysoxylum mollissimum; Elaeocarpus grandis; Flindersia; Flindersia brayleyana; Gmelina; Gmelina leichardtii; Grevillea robusta; Khaya nyasica; mixed species; Queensland; rainforest tree species (exotic); rainforest tree species (native); Rhodospaera rhodanthema; silver quandong; Silviculture; Species/provenance/clone/family trial (only); Toona ciliata

Data measured:

dbh; height; tree form; volume

87

BORSCHMANN, R. 1997.

Site preparation for plantation establishment

In: Harris, S.; and Hamilton, L. (eds.) 'Money, marketing, management', Proceedings of the farm forestry conference presented by the Corangamite Farm Forestry Project, 30 September to 1 October 1997, University of Ballarat, Victoria, pp. 80-86

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Agriform; autumn gum moth; establishment techniques; Eucalyptus globulus; Eucalyptus grandis; fencing; fertiliser - application or requirement; glyphosate; herbicide; insect pests; irrigation; leafblister sawfly; Mnesampela; Mnesampela privata; Phylacteophaga; Phylacteophaga eucalypti Froggatt; Pivot 800; Pivot 900; plantation pests; ripping; Silviculture; simazine; site preparation; species/provenance comparison within silv. trial; Ulexite; Victoria; weed control

Data measured:

diameter; predominant height / mean dominant height; survival; volume

88

BORSCHMANN, R. AND BAKER, T. 1995.

Provenance selection, establishment and productivity of eucalypt plantations for north-east Victoria

In: Bren L.; and Greenwood C. (eds.) 'Applications of New Technologies in Forestry', Proceedings of the Institute of Foresters of Australia 16th Biennial Conference, Ballarat, Victoria, 18-21 April 1995, pp. 253-262

Publication type: E DataType: GD
Stand Type: PL

Keywords:

establishment techniques; Eucalyptus badjensis; Eucalyptus botryoides; Eucalyptus bridgesiana; Eucalyptus brookeriana; Eucalyptus camaldulensis; Eucalyptus cypellocarpa; Eucalyptus dalrympleana; Eucalyptus delegatensis; Eucalyptus dunnii; Eucalyptus elata; Eucalyptus fastigata; Eucalyptus fraxinoides; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus macarthurii; Eucalyptus nitens; Eucalyptus obliqua; Eucalyptus oreades; Eucalyptus pilularis; Eucalyptus radiata; Eucalyptus regnans; Eucalyptus saligna; Eucalyptus sieberi; Eucalyptus smithii; Eucalyptus viminalis; fertiliser - application or requirement; irrigation; ripping; Silviculture; site preparation; species/provenance comparison within silv. trial; Species/provenance/clone/family trial (only); Victoria; weed control

Data measured:

DATA - mean dominant height (MDH), MAI; height; volume

89

BORSCHMANN, R.; HARDNER, C.; AND BAKER, T. 1993.

Eucalypt plantation trials in north-east and north-central Victoria - establishment report*Research report No. 352, Forest Research and Development Branch, Forests Service, Conservation and Natural Resources*

Publication type:	E	DataType:	GEN - Experiment design
Stand Type:	PL		

Keywords:

Agriform; establishment techniques; Eucalyptus badjensis; Eucalyptus botryoides; Eucalyptus bridgesiana; Eucalyptus brookeriana; Eucalyptus camaldulensis; Eucalyptus cypellocarpa; Eucalyptus dalrympleana; Eucalyptus delegatensis; Eucalyptus dunnii; Eucalyptus elata; Eucalyptus fastigata; Eucalyptus fraxinoides; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus macarthurii; Eucalyptus nitens; Eucalyptus obliqua; Eucalyptus oreades; Eucalyptus pilularis; Eucalyptus radiata; Eucalyptus regnans; Eucalyptus saligna; Eucalyptus sieberi; Eucalyptus smithii; Eucalyptus viminalis; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - nitrogen - phosphorus - potassium; fertilisers - phosphorus; fertilisers - urea; glyphosate; gymnosperm; herbicide; irrigation; Pinus; Pinus radiata; Pivot 800; Pivot 900; ripping; Silviculture; simazine; site preparation; Species trial (only); species/provenance comparison within silv. trial; Species/provenance/clone/family trial (only); superphosphate; Ulexite; Victoria; weed control

90

BRAND, J. E.; CROMBIE, D. S.; AND MITCHELL, M. D. 2000.

Establishment and growth of sandalwood (Santalum spicatum) in south-western Australia: The influence of host species*Australian Forestry 63(1-2): 60-65*

Publication type:	E	DataType:	
Stand Type:	DS		

Keywords:

Acacia; Acacia acuminata; Allocasuarina huegeliana; Eucalyptus loxophleba; host preference; low rainfall site; sandalwood; Santalum spicatum; Western Australia

Data measured:

DATA - foliar N, K, Ca, P, Mg; diameter; height; survival

91

BRAND, J. E.; RYAN, P. C.; AND WILLIAMS, M. R. 1999.

Establishment and growth of sandalwood (*Santalum spicatum*) in south-western Australia: the Northampton pilot trial

Australian Forestry 62(1): 33-37

Publication type: E DataType: GD
Stand Type: DS

Keywords:

Acacia; *Acacia acuminata*; establishment techniques; host preference; low rainfall site; planting date; sandalwood; *Santalum spicatum*; seed treatment; Silviculture; Western Australia

Data measured:

DATA - bole length, Calculated stem weight; diameter; height; survival

92

BREN, L.; HOPMANS, P.; GILL, B.; BAKER, T.; AND STACKPOLE, D. 1993.

Commercial tree-growing for land and water care. 1: Soil and groundwater characteristics of the pilot sites

Trees for Profit Research Centre, University of Melbourne

Publication type: S DataType:
Stand Type: PL

Keywords:

establishment techniques; *Eucalyptus globulus*; *Eucalyptus grandis*; *Eucalyptus nitens*; groundwater table; pruning; Silviculture; site comparison (within experiment); soil analysis; species/provenance comparison within silv. trial; thinning; Victoria

93

BRENNAN, G. K. AND RADOMILJAC, A. M. 1998.

Preliminary observations on the utilisation and wood properties of plantation teak (*Tectona grandis*) and African mahogany (*Khaya senegalensis*) grown near Kununurra, Western Australia

Australian Forestry 61(2): 120-126

Publication type: E & W DataType:
Stand Type: PL

Keywords:

African mahogany; irrigation; *Khaya senegalensis*; rainforest tree species (exotic); teak; *Tectona grandis*; Western Australia; wood density; wood properties

Data measured:

DATA - individual trees (height and dbh), density (air dry, green, basic), shrinkage, initial moisture content, air dry density, width and thickness shrinkages, nailing properties, amount of splitting

94

BRENNAN, P. 2000.

State Forests of New South Wales, Hardwood Plantations Division: Summary of research activities

In: Tomkins, B. (ed.) Workshop on weed control in plantation forestry, University of Melbourne, School of Forestry, Creswick, 23-24 February 2000

Publication type: G **DataType:** GEN - Project description
Stand Type: PL

Keywords:

alternatives to herbicides; Authority; Azafenidin; Balance; Brodal; Command; Corymbia; Dual Gold; Eclipse; Euc-Mix G; Flame; Fusilade; herbicide; Lontrel L; mulching; mulching - paper; mulching - sawdust; New South Wales; Oust; Silviculture; simazine; Stomp; Sulfometuron; Verdict; Visor; weed control; weed control - manual; weed control - mechanical; weed mat

95

BRISTOW, M. 1997.

Timing and frequency of application of fertilisers (Experiment 781)

In: Paper presented at QFRI and CRCTREM Seminar: Nutrition research in Tropical Tree Plantations, South Johnstone, August 22 1997, pp. 15-19

Publication type: E **DataType:** GD
Stand Type: PL

Keywords:

Elaeocarpus angustifolius; establishment techniques; fertiliser - application or requirement; fertiliser - timing; Flindersia; Flindersia brayleyana; irrigation; Queensland; Queensland maple; rainforest tree species (native); silver quandong; Silviculture; species/provenance comparison within silv. trial

Data measured:

height

96

BRISTOW, M.; LAMB, D.; HUYNH, N. D.; AND KEENAN, R. 2000.

Making plantations attractive to north Queensland small-scale forest growers: Early research results with mixed species plantations

In: IUFRO Conference "Small scale forestry", held in Cairns, 2000

Publication type: E **DataType:** GD
Stand Type: PL

Keywords:

Acacia; Acacia aulacocarpa; Elaeocarpus grandis; Eucalyptus pellita; Flindersia; Flindersia brayleyana; mixed species; Queensland; Queensland maple; rainforest tree species (native); silver quandong; Silviculture

Data measured:

biomass; diameter; height; tree form; volume

97

BROWN, A. G. AND GREENHAM, C. G. 1965.

Further investigations in the control of mistletoe by trunk injections*Australian Journal of Experimental Agriculture and Animal Husbandry* 5(18): 305-9

Publication type: E DataType:
Stand Type:

Keywords:

2,4-D; 2,4-DB; Eucalyptus polyanthemus; mistletoe control; plantation pests; Silviculture; stem injection

98

BROWN, P.; DOLEY, D.; AND KEENAN, R. J. 1998.

Old rainforest tree plantations: The potential for increased growth

In: Kikkawa, J.; Dart, P.; Doley, D.; Ishii, K.; Lamb, D.; and Suzuki, K. (eds.) Proceedings 6th international workshop of BIO-REFOR, Brisbane, Australia December 2-5, 1997, pp. 68-70

Publication type: G DataType:
Stand Type: PL

Keywords:

Flindersia; Flindersia brayleyana; Queensland; Queensland maple; rainforest tree species (native); Silviculture; thinning; understorey sampling

Data measured:

DATA - hemispherical photographs, size class distribution

99

BRUNDRETT, M. 1999.

Ectomycorrhizal fungi for eucalypt plantations in China: Ch3. Field trials in southwestern Australia*Final report ACIAR Project No. 9425, CSIRO Forestry and Forest Products & Murdoch University*

Publication type: E DataType: GD
Stand Type: PL

Keywords:

ectomycorrhiza; Eucalyptus globulus; fertiliser - application or requirement; fertilisers - copper; fertilisers - manganese; fertilisers - phosphorus; inoculation; mycorrhiza; nutrition - cycling or requirements or analysis; root systems; sand; Silviculture; site comparison (within experiment); soil type; superphosphate; Western Australia

Data measured:

DATA - root length, root biomass, spore concentrations (ECM Density), Basal diameter, soil P, foliar analysis

100

BRUSKIN, S. 1992.

Effects of silvicultural treatments on spotted gum mining timber production*Research Division, Forestry Commission of New South Wales, Research paper No. 14*

Publication type: E DataType: GD
 Stand Type: NF

Keywords:

coppice; Eucalyptus maculata; Eucalyptus paniculata; Eucalyptus propinqua; logging method; New South Wales; Silviculture; stand density; thinning

Data measured:

dbh; predominant height / mean dominant height; volume

101

BUBB, K. A. 1996.

Nitrogen dynamics and distribution in hoop pine plantations of Southern Queensland*Doctor of Philosophy , Griffith University*

Publication type: E DataType:
 Stand Type:

Keywords:

Araucaria cunninghamii; fertilisers - nitrogen; hoop pine; litterfall; nutrition - cycling or requirements or analysis; Queensland; second rotation

102

BUBB, K. A.; XU, Z. H. ; SIMPSON, J. A.; AND SAFLIGNA, P. G. 1999.

Growth response to fertilisation and recovery of N-15-labelled fertiliser by young hoop pine plantations of subtropical Australia*Nutrient Cycling in Agroecosystems 54(1): 81-92*

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

ammonium fertilisers; ammonium sulphate; application rate; application timing; Araucaria; Araucaria cunninghamii; cattle; deer; fencing; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - nitrogen - phosphorus - potassium; gymnosperm; hoop pine; later age fertiliser; livestock; plantation pests; Queensland; rainforest tree species (native); second rotation; Silviculture; site comparison (across experiments); vertebrate

Data measured:

basal area; DATA - foliage chemical analysis (N, P, K, Cu, Zn, Na, Ca, Mg, Mn, Al, Fe, B, Cl, SO4); foliage, branch, bark, stemwood, root and soil fresh weight, moisture content and N15 content; soil bulk density; dbh; diameter; height; volume

103

BULINSKI, J. 1999.

A survey of mammalian browsing damage in Tasmanian eucalypt plantations*Australian Forestry* 62(1): 59-65

Publication type: A DataType: GD
 Stand Type: PL

Keywords:

1080 poisoning (vertebrate control); Eucalyptus globulus; Eucalyptus nitens; mammal browsing; pest control; plantation pests; Silviculture; site comparison (within experiment); species/provenance comparison within silv. trial; Tasmania; vertebrate pests

Data measured:

DATA - mean browse score (MBS), percent seedlings damaged (PSD), height increment or loss; height; survival

104

BULINSKI, J. AND MCARTHUR, C. 1998.

Browsing damage in Tasmania: Research answers to some management questions

Technical Report No. 9 (Project C3- Vertebrate browsing damage), Cooperative Research Centre for Sustainable Production Forestry, Hobart, Tasmania, 91 pp.

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

1080 poisoning (vertebrate control); Eucalyptus globulus; Eucalyptus nitens; fencing; mammal browsing; pest control; pest monitoring; plantation pests; Silviculture; site comparison (within experiment); species/provenance comparison within silv. trial; Tasmania; vertebrate pests

Data measured:

DATA - mean browse score (MBS), growth rate (mm height and diameter per day), average number of leading shoots, percent seedlings damaged (PSD), scat abundance; survival

105

BULINSKI, J. AND MCARTHUR, C. 1999.

An experimental field study of the effects of mammalian herbivore damage on *Eucalyptus nitens* seedlings

Forest Ecology and Management 113: 241-249

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Eucalyptus nitens; fencing; mammal browsing; pest control; plantation pests; Silviculture; site comparison (within experiment); Tasmania; vertebrate pests

Data measured:

DATA - mean browse score (MBS), growth rate (mm per day); survival

106

BULINSKI, J. AND MCARTHUR, C. 2000.

Spatial distribution of browsing damage and mammalian herbivores in Tasmanian eucalypt plantations

Australian Forestry 63(1): 27-33

Publication type: A DataType:
Stand Type: PL

Keywords:

Eucalyptus nitens; mammal browsing; pest monitoring; plantation pests; site comparison (within experiment); Tasmania; vertebrate pests

Data measured:

DATA - mean browse score (MBS), percent seedlings damaged (PSD), faecal pellet counts and species identification, distance to nearest cover and nearest windrow

107

BULMAN, P. 1998.

Growing broombush for profit and land protection

Agroforestry News 7(3): 12-13

Publication type: G DataType: GEN - Review, discussion or brief article
Stand Type: PL

Keywords:

agroforestry; broombush; coppice; cutting management; establishment techniques; extension article; *Melaleuca uncinata*; non-timber product; provenance trial (only); site comparison (within experiment); South Australia; weed control

Data measured:

yield

108

BULMAN, P.; BEALE, P.; AND KNIGHT, A. 1998.

Growing broombush - for profit and land protection*Bulletin 1/98, Primary Industries and Resources SA, 24 pp.*

Publication type:	E	DataType:	GD
Stand Type:	DS PL		

Keywords:

agroforestry; broombush; coppice; cutting management; economics; establishment techniques; extension article; fertiliser - application or requirement; irrigation; *Melaleuca uncinata*; non-timber product; Silviculture; site comparison (within experiment); soil type; South Australia; spacing; species/provenance comparison within silv. trial; Victoria; weed control

Data measured:

DATA - average weight per bush, total brush, 70% saleable brush, bush width; height; yield

109

BURGESS, I. P. 1988.

Provenance trials of *E. grandis* and *E. saligna* in Australia*Silvae Genetica* 37: 221-227.

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Africa; *Eucalyptus grandis*; *Eucalyptus saligna*; New South Wales; provenance trial (only); Queensland; site comparison (within experiment); Species/provenance/clone/family trial (only)

Data measured:

diameter; height; volume

110

BURNS, M. W. 1987.

Reafforestation of open cut coal mines using direct-seeding techniques*NERDDC Report, Project No. 827, 326 pp.*

Publication type:	B	DataType:	
Stand Type:	DS - Mine Site Rehabilitation		

Keywords:

cover crop; cultivation; establishment techniques; fertiliser - application or requirement; herbicide; mine site; mulching; New South Wales; planting date; pre-plant herbicide application; Silviculture; site preparation; soil amendments; weed competition; weed control

111

BUTCHER, T. B. 1977.

Impact of moisture relationships on the management of *Pinus pinaster* AIT plantations in Western Australia*Forest Ecology and Management 1: 97-107*

Publication type:	E	DataType:
Stand Type:	PL	

Keywords:

ammonium fertilisers; fertiliser - application or requirement; fertilisers - nitrogen and phosphorus; foliar analysis; gymnosperm; low rainfall site; maritime pine; physiology; *Pinus*; *Pinus pinaster*; plant water relations; Silviculture; superphosphate; thinning; trace elements; water availability; water use; water use efficiency; Western Australia

Data measured:

basal area; DATA - soil moisture content; canopy interception of rainfall, stemflow, and throughfall; diameter increment; volume increment; foliage N,P,K,Ca, Mg, Mn, Zn; diameter; volume

112

CAMERON, D. 1984.

Some results of experiments with eucalypts in southeastern Queensland and guidelines for planting*In: Davies W. (ed.) Plant a tree. ECOS Educational Services*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

establishment techniques; *Eucalyptus grandis*; *Eucalyptus pilularis*; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; insect pests; plantation pests; Queensland; Silviculture; site comparison (within experiment); species/provenance comparison within silv. trial; Species/provenance/clone/family trial (only)

Data measured:

height

113

CAMERON, D. M. AND JERMYN, D. 1991.

Review of plantation performance of high value rainforest species*ACIAR Working Paper No. 36, 45 pp.*

Publication type:	G	DataType:	GD
Stand Type:	demonstration/routine management plot PL		

Keywords:

Acacia; Acacia melanoxylon; Acrocarpus; Acrocarpus fraxinifolius; agroforestry; Albizia; Albizia lebbek; Araucaria; Araucaria cunninghamii; black bean; Cardwellia sublimis; Castanospermum australe; Cedrela fissilis; Cedrela odorata; Dalbergia latifolia; Dalbergia sissoo; Dysoxylum fraserianum; Dysoxylum muelleri; Elaeocarpus grandis; Endiandra bicolor; Endiandra palmerstonii; enrichment planting; Flindersia; Flindersia acuminata; Flindersia australis; Flindersia bourjotiana; Flindersia brayleyana; Flindersia ifflaiana; Flindersia pimenteliana; Flindersia schottiana; Gmelina; Gmelina arborea; Gmelina fasciculiflora; Gmelina leichardtii; Grevillea robusta; hoop pine; Khaya anthotheca; Khaya grandifoliola; Khaya ivorensis; Khaya nyasica; mixed species; Pinus elliottii; Pterocarpus angolensis; Queensland; rainforest tree species (exotic); rainforest tree species (native); red cedar; silver quandong; Silviculture; species comparison (general); Species trial (only); species/provenance comparison within silv. trial; Swietenia macrophylla; Swietenia mahogani; teak; Tectona grandis; thinning; Toona ciliata; Toona microcarpa; underplanting

Data measured:

basal area; DATA - quadratic dbh, merchantable volume, number of standing, dead and thinned stems, merchantable bole length; height

114

CAMERON, D. M.; RANCE, S. J.; CROMER, R. N.; WILLIAMS, E. R.; RYAN, P. A.; BROWN, M.; BORSCHMANN, G. R.; AND JOHNSTON, J. B. 1990.

Response of young Eucalyptus grandis to fertilizer treatments. II. Nitrogen and phosphorus concentration and accumulation

In: Cromer, R. N. (ed.) Shell hardwood plantation development project - Final report, Report by CSIRO Division of Forestry and Forest Products, to Shell Company of Australia Limited

Publication type:	E	DataType:
Stand Type:	PL	

Keywords:

biomass production; Eucalyptus grandis; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; foliar analysis; phosphorus nitrogen ratio; plant analysis; Queensland; Silviculture

Data measured:

biomass; DATA - chemical analysis (N, P) of leaf, branch, and sawdust from stemwood and stem bark, oven dry mass of leaves and woody branch material; volume

115

CAMERON, D. M.; RANCE, S. J.; JONES, R. M.; CHARLES-EDWARDS, D. A.; AND BARNES, A. 1989.

Project STAG: An experimental study in agroforestry

Australian Journal of Agricultural Research 40: 699-714

Publication type: E DataType: GD
Stand Type: PL

Keywords:

agroforestry; biomass production; Eucalyptus grandis; pasture; Poaceae; Queensland; Setaria; Setaria sphacelata; Silviculture; spacing

Data measured:

biomass; DATA - pasture height, biomass, species composition and percent bare ground; dbh; height

116

CAMERON, D. M.; RANCE, S. J.; AND WILLIAMS, E. R. 1986.

Nutrition studies with irrigated Eucalyptus camaldulensis and Anthocephalus chinensis on a cracking clay in northern Australia

Tropical Agriculture, UK 63(1): 11-16

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Anthocephalus; Anthocephalus chinensis; application rate; clay soils; establishment techniques; Eucalyptus camaldulensis; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; fertilisers - sulfur; fertilisers - zinc; irrigation; Northern Territory; nutrition - cycling or requirements or analysis; Silviculture; species/provenance comparison within silv. trial; trace elements; Western Australia

Data measured:

DATA - foliar analysis (N, P, K, Na, Ca, Mg, Mn, Al, S, B, Zn, Cu, Chloride); dbh; height; volume

117

CAMERON, J. AND TURVEY, N. 1977.

Weed control and nutrition of eucalypt plantations

Proceedings (Part 1) of the AFDI (Aust Forest Development Institute) Forestry Conference, 1977, Traralgon, Victoria, AFDI

Publication type: G DataType: GD
Stand Type: PL

Keywords:

amitrole; Confos; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus saligna; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - nitrogen - phosphorus - potassium; fertilisers - nitrogen and phosphorus; fertilisers - urea; New South Wales; nutrition - cycling or requirements or analysis; Silviculture; simazine; site preparation; trace elements; Victoria; weed control

Data measured:

DATA - oil yield (E. globulus), nutrient uptake; mean annual index (MAI); volume

118

CAMPBELL, M. H. 2001.

Establishment of trees on non-arable land to replace weeds

A report for the RIRDC/LWRRDC/FWPRDC Joint Venture Agroforestry Program, RIRDC Project No. DAN-126A

Publication type: E DataType: GD
Stand Type: DS
DS - Broadcast Sown
PL

Keywords:

Acacia; Acacia dealbata; Acacia melanoxylon; aerial sowing; African lovegrass; ants; application timing; atrazine; birds (as pests); blackwood; Brachychiton populneus; burning; Casuarina cunninghamiana; Eragrostis curvula; Euc-Mix G; Eucalyptus aggregata; Eucalyptus albens; Eucalyptus blakelyi; Eucalyptus camaldulensis; Eucalyptus fastigata; Eucalyptus globulus; Eucalyptus macarthurii; Eucalyptus macrorhyncha; Eucalyptus mannifera; Eucalyptus melliodora; Eucalyptus pauciflora; Eucalyptus polyanthemus; Eucalyptus viminalis; fencing; financial; Forest Mix; Frenock; glyphosate; Goal; gymnosperm; herbicide; hexazinone; Hypericum perforatum; insect pests; land degradation; low rainfall site; mycorrhiza; Nassella trichotoma; New South Wales; oxyfluorfen; pest control; Pinus; Pinus radiata; plantation pests; post-plant herbicide application; pre-plant herbicide application; Roundup; serrated tussock; Silviculture; site comparison (across experiments); site comparison (within experiment); species comparison (general); species/provenance comparison within silv. trial; St John's wort; Sulfometuron methyl; Terbacil; tree guard; vertebrate pests; weed control; weed species - general list

Data measured:

DATA - number of trees established; survival

119

CAMPBELL, M. H. AND DOWLING, P. M. 1999.

Establishing trees to control serrated tussock (*Nassella trichotoma* (Nees) Arech.)

In: Twelfth Australian Weeds Conference "Weed management into the 21st century: Do we know where we're going?", Wrest Point Convention Centre, Hobart, Tasmania, 12-16 September 1999, Tasmanian Weed Society, Devonport, Tasmania, pp. 39-42

Publication type:	E	DataType:	GD
Stand Type:	DS		
	DS - Broadcast Sown		
	PL		

Keywords:

aerial sowing; ants; application timing; atrazine; *Eucalyptus viminalis*; fencing; herbicide; hexazinone; insect pests; land degradation; low rainfall site; mycorrhiza; *Nassella trichotoma*; New South Wales; *Pinus*; *Pinus radiata*; plantation pests; post-plant herbicide application; pre-plant herbicide application; serrated tussock; Silviculture; site comparison (across experiments); species/provenance comparison within silv. trial; Sulfometuron methyl; Terbacil; weed control

Data measured:

DATA - number of trees established; survival

120

CAMPBELL, M. H. AND NICOL, H. I. 1998.

Tolerance of tree seedlings to pre- and post-emergence herbicides

Proceedings 9th Australian Agronomy Conference, Wagga Wagga, NSW, pp 267-278

Publication type:	E	DataType:
Stand Type:		

Keywords:

herbicide; post-plant herbicide application; pre-plant herbicide application; Silviculture; weed control

121

CANDY, S. G.; ELLIOTT, H. J.; BASHFORD, R.; AND GREENER, A. 1992.

Modelling the impact of defoliation by the leaf beetle, *Chrysophtharta bimaculata* (Coleoptera: Chrysomelidae), on height growth of *Eucalyptus regnans*

Forest Ecology and Management 54: 69-87

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

application rate; application timing; Chrysomelidae; Chrysophtharta bimaculata; Coleoptera; defoliation - artificial; disbudding; early larval instars; Eucalyptus regnans; insect mortality; insect pests; MODEL; pest control; plantation pests; Silviculture; Tasmania; treatment repetition

Data measured:

DATA - percentage crown volume removed (defoliation), mean dry weight of leaves removed - buds and leaves of new and old foliage, simulated mean annual volume increment; dbh; height

122

CANDY, S. G. AND GERRAND, A. M. 1997.

Comparison of financial returns from sawlog regimes for *Eucalyptus nitens* plantations in Tasmania

Tasforests 9: 35-50

Publication type:	E	DataType:
Stand Type:	PL	

Keywords:

Eucalyptus nitens; Eucalyptus regnans; financial; MODEL; products; sawlogs; site index; Tasmania; thinning

123

CARNE, P. B.; GREAVES, R. T. G.; AND MCINNES, R. S. 1974.

Insect damage to plantation-grown eucalypts in north coastal New South Wales, with particular reference to Christmas beetles (Coleoptera):*Journal of Australian Entomological Society* 13: 189-206

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Anoplognathus chloropyrus; Anoplognathus porosis; application timing; Christmas beetles; Coleoptera; DDT (insecticide); defoliation - artificial; early larval instars; Eucalyptus dunnii; Eucalyptus grandis; Eucalyptus pilularis; Eucalyptus saligna; foliage damage; insect pests; insect species - general list; insecticide; New South Wales; pest control; plantation pests; Scarabaeidae; Silviculture; treatment repetition

Data measured:

DATA - field collecting, light trapping, general behaviour, host preference, defoliation score, proportion of trees defoliated to different extents, distribution of immature stages in soil, number of beetles per attacked tree, height increment or loss; height

124

CARNEGIE, A. J.; ADES, P. K.; KEANE, P. J.; AND SMITH, I. W. 1998.

Mycosphaerella diseases of juvenile foliage in a eucalypt species and provenance trial in Victoria, Australia*Australian Forestry* 61(3): 190-194

Publication type:	A	DataType:	
Stand Type:	PL		

Keywords:

Eucalyptus botryoides; Eucalyptus brookerana; Eucalyptus cypellocarpa; Eucalyptus elata; Eucalyptus fraxinoides; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus nitens; Eucalyptus oreades; Eucalyptus quadrangulata; Eucalyptus saligna; Eucalyptus sieberi; Eucalyptus smithii; Eucalyptus viminalis; fungal disease; fungal diseases - general list; host preference; Mycosphaerella; pathogen; pest monitoring; plantation pests; Species/provenance/clone/family trial (only); Victoria

Data measured:

DATA - species and abundance of Mycosphaerella, percent leaves infected per branch

125

CARNEGIE, A. J.; KEANE, P. J.; ADES, P. K.; AND SMITH, I. W. 1994.

Provenance variation in *E. globulus* in susceptibility to *Mycosphaerella* leaf disease

Canadian Journal Forest Research 24: 1751-1757

Publication type: E DataType:
Stand Type: PL

Keywords:

Eucalyptus botryoides; *Eucalyptus brookerana*; *Eucalyptus cypellocarpa*; *Eucalyptus elata*; *Eucalyptus fraxinoides*; *Eucalyptus globulus*; *Eucalyptus grandis*; *Eucalyptus nitens*; *Eucalyptus oreades*; *Eucalyptus quadrangulata*; *Eucalyptus saligna*; *Eucalyptus sieberi*; *Eucalyptus smithii*; *Eucalyptus viminalis*; fungal disease; *Mycosphaerella*; pathogen; provenance trial (only); species/provenance comparison within silv. trial; Victoria

126

CARR, D. 2000.

Greening Australia's low rainfall species trial - Western Australia

Red Gum Review (A newsletter and information service for Greening Australia farm forestry staff) 2 (November): 10-12

Publication type: E DataType: GEN - Experiment design
Stand Type:

Keywords:

Eucalyptus camaldulensis; *Eucalyptus rudis*; *Eucalyptus rudis*-*E. camaldulensis* intergrade; low rainfall site; Species/provenance/clone/family trial (only); Western Australia

127

CARTER, R. W. 1971.

The effect of various herbicides on the control of weeds associated with hoop pine plantations

Honours thesis, Australian National University, Canberra

Publication type: G DataType:
Stand Type:

Keywords:

Araucaria; *Araucaria cunninghamii*; herbicide; Queensland; rainforest tree species (native)

128

CATCHPOOLE, S. J.; DOWNES, G.; AND READ, S. M. 2000.

The effect of salt on wood and fibre formation in eucalypts

*A report for the RIRDC/LWRRDC/FWPRDC Joint Venture Agroforestry Program, RIRDC
Publication No 00/162, RIRDC Project No UM-18A, November 2000*

Publication type: E & W DataType: GD
Stand Type: NURS
PL

Keywords:

application rate; Eucalyptus globulus subsp. globulus; foliar analysis; irrigation; irrigation - fresh water; irrigation - saline water; saline site; salinity comparison; Silviculture; site comparison (across experiments); Victoria; wood density; wood fibre; wood properties

Data measured:

DATA - soil salinity (EC), foliar (Na, K, Cl), wood cores (oven dry mass, green volume, basic density, fibre length and diameter, lumen diameter and wall thickness), pot trial: xylem growth after salt treatment, field trial: bark and cambium sample; diameter; height; volume

129

CHEN, WENBIN 1997.

Genetic variation in oil, growth and propagation traits of Backhousia citriodora (F. Muell.), and implications for breeding strategy

M.Sc Thesis, Department of Forestry, Australian National University, Canberra

Publication type: E DataType:
Stand Type:

Keywords:

Backhousia citriodora; rainforest tree species (native)

130

CHRISTENSEN, P. 1974.

Response of open-rooted Karri (Eucalyptus diversicolor) seedlings to nitrogen and phosphorus fertilizer

Research Paper, Forests Department of Western Australia, No.12

Publication type: E DataType: GD
Stand Type: PL

Keywords:

application rate; bare rooted stock; establishment techniques; Eucalyptus diversicolor; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; fertilisers - urea; karri; Nitroform; Nutrifert; phosphorus nitrogen ratio; Silviculture; site comparison (within experiment); superphosphate; Western Australia

Data measured:

DATA - percent mortality; height

131

CHURCHILL, K. 2000.

Evaluation of cover crop mixtures in Tasmania

Technical report no. 31, CRC for Sustainable Production Forestry; 11 pp.

Publication type: E DataType:
Stand Type:

Keywords:

cover crop; Tasmania

132

CLARK, N. B.; READ, S. M.; AND VINDEN, P. 1999.

Effects of drought and salinity on wood and kraft pulps from young plantation eucalypts

Appita Journal 52(2): 93-97 and 113

Publication type: W DataType: GD
Stand Type: PL

Keywords:

application rate; Eucalyptus camaldulensis; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus nitens; Eucalyptus occidentalis; fertiliser - application or requirement; fertilisers - nitrogen and phosphorus; irrigation; irrigation - rainfed treatment; products; saline site; salinity comparison; Silviculture; South Australia; species/provenance comparison within silv. trial; Tasmania; water availability; water stress; Western Australia; wood density; wood properties

Data measured:

DATA - basic density, pulping composites (residual lignin content), bleaching, papermaking tests; soil salinity (WA site); volume

133

CLARKE, B. 1998.

Choosing trees for the NSW Southern Tablelands*Information pamphlet (see also CSIRO - ATSC web site March 2001), CSIRO Forestry and Forest Products*

Publication type:	E	Data Type:	GD
Stand Type:	PL		

Keywords:

Acacia; Australian Capital Territory; cold climate site; Eucalyptus aggregata; Eucalyptus badjensis; Eucalyptus benthamii; Eucalyptus bicostata; Eucalyptus botryoides; Eucalyptus brookerana; Eucalyptus cinerea; Eucalyptus dalrympleana; Eucalyptus delegatensis; Eucalyptus fastigata; Eucalyptus globulus; Eucalyptus kartzoffiana; Eucalyptus laevopinea; Eucalyptus macarthurii; Eucalyptus nicholii; Eucalyptus nitens; Eucalyptus nortonii; Eucalyptus nova-anglica; Eucalyptus oreades; Eucalyptus paliformis; Eucalyptus regnans; Eucalyptus smithii; Eucalyptus viminalis; fuelwood; New South Wales; Pinus radiata; plantation pests; site comparison (across experiments); site comparison (within experiment); Species/provenance/clone/family trial (only); wood uses (general)

Data measured:

height

134

CLEMENS, J. AND STARR, R. K. 1985.

Field establishment of container-grown plants. 1. Effects of weed control*Journal of Environmental Management 21: 257-261*

Publication type:	E	Data Type:	GD
Stand Type:	PL		

Keywords:

Agral 60 / 70; Casuarina glauca; Diquat; Eucalyptus botryoides; glyphosate; Gramoxone; herbicide; hoeing; Melaleuca armillaris; mowing; mulching; mulching - plastic; mulching - sawdust; New South Wales; organophosphorus herbicides; Oryzalin; Paraquat; Reglone; Roundup; Silviculture; site comparison (within experiment); soil type; species/provenance comparison within silv. trial; transplanting; weed control; weed control - manual; weed control - mechanical

Data measured:

DATA - herbaceous species diversity and density score, dry weight, tree fresh weight; diameter; height

135

CLOSE, D. C.; BEADLE, C. L.; BROWN, P. J.; AND HOLZ, G. K. 2000.

Cold-induced photoinhibition affects establishment of *Eucalyptus nitens* (Deane and Maiden) Maiden and *E. globulus* Labill*Trees: Structure and Function* 15: 32-41

Publication type:	P	DataType:	GD
Stand Type:	PL		

Keywords:

cold tolerance; establishment techniques; *Eucalyptus globulus*; *Eucalyptus nitens*; outplanting; physiology; planting date; planting stock; Silviculture; species/provenance comparison within silv. trial; Tasmania

Data measured:

DATA - air temperature, chlorophyll fluorescence and gas exchange, leaf pigment analysis, laboratory electrolyte conductivity in response to frosting; height

136

COSTANTINI, A. AND FRODSHAM, T. 1987.

Tolerance of *Araucaria cunninghamii* transplants to sixteen herbicides*Klinkii* 3(3): 11-17

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Acifluorfen; Alloxymid; Ametriflone; application method; application rate; *Araucaria*; *Araucaria cunninghamii*; Arsenic; Blazer; Buster; clopyralid; Dichlorprop; DP60; Dual; establishment techniques; Fenoxaprop; Fervin; Flamprop-methyl; Fluazifop; Fusilade; Garlon; Glufosinate; Goal; gymnosperm; haloxyfop-methyl; herbicide; Lontrel L; metolachlor; organophosphorus herbicides; oxyfluorfen; pesticides; phytotoxic effect; post-plant herbicide application; pre-plant herbicide application; Queensland; rainforest tree species (native); Sertin; sethoxydim; Silviculture; simazine; SSH0860; Tandem; Triclopyr; Tridiphane; Verdict; weed control; Whip

Data measured:

DATA - damage score; height; survival

137

COTSELL, N. 1991.

Hardwood underplanting - *Triconys* logging area*Interim report 1966-1989, Queensland Forest Service*

Publication type:	E	DataType:	
Stand Type:			

Keywords:

Ceratopetalum apetalum; *Elaeocarpus grandis*; *Flindersia*; *Flindersia australis*; *Flindersia brayleyana*; *Flindersia afflaiana*; *Grevillea robusta*; Queensland; rainforest tree species (exotic); rainforest tree species (native); silver quandong; *Swietenia macrophylla*; underplanting

138

COTTERILL, P. P.; MORAN, G. F.; AND GRIGG, B. R. 1985.

Early growth of 36 species of Eucalypts near Mount Gambier, South Australia*Australian Forest Research* 15: 409-416

Publication type: E DataType: GD

Stand Type:

Keywords:

Eucalyptus agglomerata; Eucalyptus baxteri; Eucalyptus botryoides; Eucalyptus brookerana; Eucalyptus camaldulensis; Eucalyptus citriodora; Eucalyptus cladocalyx; Eucalyptus cloeziana; Eucalyptus consideniana; Eucalyptus deanei; Eucalyptus delegatensis; Eucalyptus diversicolor; Eucalyptus dunnii; Eucalyptus fastigata; Eucalyptus fraxinoides; Eucalyptus globulus; Eucalyptus gomphocephala; Eucalyptus grandis; Eucalyptus laevopinea; Eucalyptus leucoxylon; Eucalyptus microcorys; Eucalyptus muelleriana; Eucalyptus nitens; Eucalyptus obliqua; Eucalyptus occidentalis; Eucalyptus oreades; Eucalyptus phaeotricha; Eucalyptus pilularis; Eucalyptus pyrocarpa; Eucalyptus quadrangulata; Eucalyptus regnans; Eucalyptus saligna; Eucalyptus tereticornis; Eucalyptus triflora; Eucalyptus viminalis; low rainfall site; sand; South Australia; Species/provenance/clone/family trial (only)

Data measured:

diameter; height; volume

139

CRAIG, G. F.; BELL, D. T.; AND ATKINS, C. A. 1990.

Response to salt and waterlogging stress of ten taxa of Acacia selected from naturally saline areas of Western Australia*Australian Journal of Botany* 38: 619-630

Publication type: E DataType:

Stand Type:

Keywords:

Acacia; saline site; Species/provenance/clone/family trial (only); waterlogging; Western Australia

140

CRAMER, V. A. ; THORBURN, P. J. ; AND FRASER, G. W. 1999.

Transpiration and groundwater uptake from farm forest plots of *Casuarina glauca* and *Eucalyptus camaldulensis* in saline areas of southeast Queensland, Australia

Agricultural Water Management 39: 187-204

Publication type: P DataType:
Stand Type:

Keywords:

agroforestry; *Casuarina glauca*; *Eucalyptus camaldulensis*; groundwater table; physiology; plant water relations; Queensland; saline site; site comparison (across experiments); Species/provenance/clone/family trial (only); transpiration; water use

Data measured:

DATA - isotopic signature of soil groundwater and tree xylem water, depth to ground water table, ground water (chloride and salinity), sapflow, rainfall

141

CREMER, K. W. 1969.

Fertilization with blood and bone as an aid to the establishment of *Eucalyptus regnans* by sowing or planting

Australian Forest Research 4(1): 3-14

Publication type: E DataType: GD
Stand Type: DS
NF
PL

Keywords:

application rate; burning; compacted soil; cultivation; establishment techniques; *Eucalyptus regnans*; fencing; fertiliser - application or requirement; fertiliser - manure, animal products, bonemeal; planting date; Silviculture; site preparation; soil type; Tasmania; weed competition; weed species - general list

Data measured:

DATA - number of seedlings established, percentage over 5 cm height, health, height increment, sunlight intensity; height; predominant height / mean dominant height; survival

142

CREMER, K. W. AND CROMER, R. N.; AND FLORENCE, R. G. 1978.

Stand establishment

In: Hillis, W. E. and Brown, A. G. (eds.) Eucalypts for wood production, pp. 81-135, Academic Press, Sydney

Publication type:	G	DataType:	GD GEN - Review, discussion or brief article
Stand Type:	NF PL		

Keywords:

coppice; Eucalyptus regnans; fire; herbicide; planting stock; REVIEW; Silviculture; spacing; stand density; Victoria

Data measured:

dbh; diameter; total stand volume

143

CROMBIE, S.; WHITE, D.; AND SMITH, T. 1999.

Balancing productivity and drought risk in blue gum plantations (paper and field tour notes)

In: Balancing productivity and drought risk in blue gum plantations, A plantations management workshop - Jointly presented by Bunnings Tree Farms, Department of Conservation and Land Management, CSIRO Forestry and Forest Products, and Timbercorp Eucalypts Limited, Karri Valley Resort, Pemberton WA, November 9-10, 1999, pp. 28-39

Publication type:	E	DataType:	GD GEN - Experiment design
Stand Type:	PL		

Keywords:

Eucalyptus globulus; evaporation; fertiliser - application or requirement; fertilisers - nitrogen; plant water relations; rainfall; Silviculture; site comparison (within experiment); thinning; water use; Western Australia

Data measured:

basal area; DATA - LAI, dawn water potential, soil moisture, soil and leaf nitrogen status, diameter and volume increment; dbh; height

144

CROMER, R. N. 1971.

Fertilizer trials in young plantations of eucalypts*Australian Forest Research* 5(2):1-10

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

ammonium fertilisers; ammonium phosphate; ammonium sulphate; application rate; BloodandBone; Eucalyptus delegatensis; Eucalyptus fastigata; Eucalyptus globulus; Eucalyptus globulus subsp. bicostata; Eucalyptus quadrangulata; Eucalyptus regnans; Eucalyptus viminalis; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; fertilisers - urea; Hygold12; Hygold18; Magamp; Silviculture; site comparison (within experiment); soil type; species/provenance comparison within silv. trial; superphosphate; Victoria

Data measured:

height

145

CROMER, R. N. 1975.

The potential for Eucalyptus plantations in Victoria*Australian Science and Technology* 12(6): 6-9

Publication type: G DataType: general
 Stand Type:

Keywords:

policy; Silviculture; Victoria

146

CROMER, R. N. 1995.

Fast-growing sub-tropical eucalypt plantations*OnWood* 11(Summer 95-96): 4-5

Publication type: G DataType:
 Stand Type:

Keywords:

Eucalyptus grandis; extension article; fertiliser - application or requirement; irrigation; Queensland

147

CROMER, R. N. 1996.

Research to increase and sustain productivity of hardwood plantations in Australia*Australian Forest Grower 19(1): Special Liftout Section No. 35*

Publication type:	G	DataType:	GD
			GEN - Review, discussion or brief article
Stand Type:	PL		

Keywords:

biomass - above-ground; biomass production; establishment techniques; Eucalyptus grandis; Eucalyptus nitens; fertiliser - application or requirement; fertilisers - copper; fertilisers - nitrogen; fertilisers - phosphorus; nutrient deficiencies (symptoms); pruning; Queensland; Silviculture; soil analysis; Victoria

Data measured:

biomass; tree form; volume

148

CROMER, R. N. 1999.

Nutrient response in Eucalyptus grandis

In: Atwell, B. J.; Kriedemann P. E.; and Turnbull C. G. N. (eds.) Plants in action: adaptation in nature performance in cultivation, Macmillan, Melbourne

Publication type:	E	DataType:
Stand Type:		

Keywords:

Eucalyptus grandis; fertiliser - application or requirement

149

CROMER, R. N.; BALODIS, B.; CAMERON, D.; GARLAND, C. P.; RANCE, S.; AND RYAN, P. A. 1996.

Growth and kraft pulping characteristics of E. grandis in response to fertiliser near Gympie, Queensland

In: Proceedings 50th Appita Annual General conference, vol 1., Auckland NZ 5-10 May 1996, pp. 303-309

Publication type:	E	DataType:
Stand Type:	PL	

Keywords:

Eucalyptus grandis; fertiliser - application or requirement; Queensland; Silviculture; wood properties

150

CROMER, R. N.; BALODIS, V.; CAMERON, D.; GARLAND, C. P.; RANCE, S.; AND RYAN, P. 1998.

Eucalyptus grandis fertilizer trials: growth, wood properties and kraft paper

Appita Journal 51(1): 45-49

Publication type: W DataType: GD
Stand Type: PL

Keywords:

application rate; establishment techniques; *Eucalyptus grandis*; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; pulpwood production; Queensland; Silviculture; species/provenance comparison within silv. trial; wood density; wood fibre; wood properties

Data measured:

DATA - stem mass and volume, wood chip dry matter, bulk density, basic density, pulp fibre length distributions, sodium hydroxide solubles, lignin, pulp properties, total pulp yield; volume

151

CROMER, R. N.; CAMERON, D.; CAMERON, J. N.; FLINN, D. W.; NEILSEN, W. A.; RAUPACH, M.; SNOWDON, P.; AND WARING, H. D. 1981.

Response of eucalypt species to fertiliser applied soon after planting at several sites

Australian Forestry 44(1): 3-13

Publication type: E DataType: GD
Stand Type: PL

Keywords:

establishment techniques; *Eucalyptus globulus*; *Eucalyptus grandis*; *Eucalyptus nesophila*; *Eucalyptus obliqua*; *Eucalyptus pilularis*; *Eucalyptus sieberi*; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - nitrogen - phosphorus - potassium; fertilisers - phosphorus; fertilisers - urea; foliar analysis; gypsum; New South Wales; Northern Territory; nutrition - cycling or requirements or analysis; phosphorus nitrogen ratio; Silviculture; site comparison (within experiment); species/provenance comparison within silv. trial; Tasmania; trace elements; Victoria

Data measured:

DATA - foliar analysis upper crown (N and P); diameter; height

152

CROMER, R. N.; CAMERON, D. M.; LENNON, S.; RANCE, S. J.; RYAN, P. A.; AND WEST, P. W. 1995.

Response of *E. grandis* to fertilizer and irrigation, to five years-of-age

In: The potential for plantations of Eucalyptus grandis in coastal Queensland. A report on Eucalyptus grandis for Shell Australia, July 1995

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

establishment techniques; Eucalyptus grandis; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; irrigation; irrigation - fresh water; Queensland; Silviculture; species/provenance comparison within silv. trial

Data measured:

biomass; DATA - current annual increment volume, above ground components - biomass; leaf area index (LAI); volume

153

CROMER, R. N.; CAMERON, D. M.; RANCE, S. J.; RYAN, P. A.; AND BROWN, M.

Response to nutrients in Eucalyptus grandis. 2. Nitrogen accumulation

Forest Ecology and Management 62: 231-243

Publication type:	E	DataType:	
Stand Type:	PL		

Keywords:

establishment techniques; Eucalyptus grandis; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; foliar analysis; irrigation; nutrition - cycling or requirements or analysis; plant analysis; Queensland; Silviculture

Data measured:

DATA - height and diameter at crown base, crown radius, biomass and N content of above-ground components (foliage, live branches, stembark, stemwood); calculated: net primary production

154

CROMER, R. N.; CAMERON, D. M.; RANCE, S. J.; RYAN, P. A.; AND BROWN, M.

Response to nutrients in *Eucalyptus grandis*. 1. Biomass accumulation*Forest Ecology and Management* 62: 211-230

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

ammonium fertilisers; ammonium sulphate; biomass - above-ground; biomass production; *Eucalyptus grandis*; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; irrigation; plant analysis; Queensland; Silviculture; species/provenance comparison within silv. trial; Superking

Data measured:

basal area; biomass; DATA - diameter and height at crown base, crown radius, specific leaf area, stemwood volume, Calc, increment in above-ground live biomass, net primary production; dbh; height; leaf area index (LAI)

155

CROMER, R. N. AND HANSEN, N. W. 1972.

Growth, nutrient uptake and pulping characteristics of young *Eucalyptus globulus**Appita Journal* 26: 187-90

Publication type: E & W DataType: GD
 Stand Type: PL

Keywords:

ammonium fertilisers; ammonium nitrate; ammonium sulphate; cultivation; establishment techniques; *Eucalyptus globulus*; fertiliser - application or requirement; fertilisers - nitrogen and phosphorus; Hygold18; pulpwood production; Silviculture; site preparation; Victoria; weed control; wood density; wood fibre; wood properties

Data measured:

basal area; DATA - leaf, branch and stem fresh weight, diameter along stem, wood and bark dry weight, basic density, extractives content, lignon, woodmeal pentosan, pulp quality and yield; dbh; height

CROMER, R. N.; RAUPACH, M.; CLARKE, A. R. P.; AND CAMERON, J. N. 1975.

CROMER, R. N.; RAUPACH, M.; CLARKE, A. R. P.; AND CAMERON, J. N. 1975.

Eucalypt plantations in Australia - the potential for intensive production and utilization

Appita Journal 29(3): 165-173

Publication type:	E	DataType:	GD
Stand Type:	PL		

Stand Type: PL

Keywords:

ammonium fertilisers; ammonium phosphate; ammonium sulphate; biomass - above-ground; biomass production; establishment techniques; Eucalyptus globulus; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; foliar analysis; Hygold18; nutrition - cycling or requirements or analysis; plant analysis; plant composition; pulpwood production; Silviculture; Victoria; weed control; wood properties

Data measured:

basal area; biomass; DATA - trees in three diameter classes: green and dry weight (leaves, live branch, dead branch, wood and bark), stem billets (pulping studies), plant component analysis (biomass, N and P); dbh; height

157

CROMER, R. N.; RYAN, P. A.; BOOTH, T. H.; CAMERON, D. M.; AND RANCE, S. J.

Limitations to productivity of *Eucalyptus grandis* plantations in sub-tropical Australia.

In: Ryan, P. J. (ed.) Third Australian Forest Soils and Nutrition Conference, "Productivity in Perspective", 7-11 October 1991, Melbourne, Forestry Commission of NSW, Sydney, pp. 133-146

Publication type:	E	DataType:	GD GEN - Project description
Stand Type:	PL		

GEN - Project description

Stand Type: PL

Keywords:

Eucalyptus grandis; fertiliser - application or requirement; foliar analysis; irrigation; nutrition - cycling or requirements or analysis; other tree species not listed; Queensland; Silviculture; site comparison (within experiment); species/provenance comparison within silv. trial; Species/provenance/clone/family trial (only)

Data measured:

basal area; DATA - LAI, foliage N content, stemwood volume, N accumulation rate, height to crown base; calculated: net primary production; predominant height / mean dominant height

158

CROMER, R. N.; RYAN, P. A.; AND BROWN, D. M. 1990.

Potential for eucalypt plantations in sub-tropical to tropical climatic zones in north-eastern Australia (Abstract)

In: Dargavel, J. and Semple, N. (eds.) Prospects for Australian Plantations, Centre for Resource and Environmental Studies, ANU Canberra, p. 441 (Appendix A)

Publication type:	E	DataType:	GD
			GEN - Project description
Stand Type:	PL		

Keywords:

Eucalyptus grandis; fertiliser - application or requirement; fungal disease; plantation pests; Queensland; Silviculture; species/provenance comparison within silv. trial; Species/provenance/clone/family trial (only)

Data measured:

height

159

CROMER, R.; SMETHURST, P.; TURNBULL, C.; MISRA, R.; LASALA, A.; HERBERT, A.; AND DIMSEY, L. 1995.

Early growth of eucalypts in Tasmania in relation to nutrition

In: Eucalypt plantations: improving fibre yield and quality, Proc. CRC-IUFRO Conference 19-24 February 1995, Hobart. pp. 331-335. Published by the Cooperative Research Centre for Temperate Hardwood Forestry.

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

biomass production; Eucalyptus globulus; Eucalyptus nitens; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; foliar analysis; nutrition - cycling or requirements or analysis; plant analysis; Silviculture; site comparison (within experiment); soil type; species comparison; Tasmania

Data measured:

biomass; DATA - above-ground biomass and nutrient concentration of plant components, root biomass and nutrient concentration at range of distances from tree, soil analysis (N,P, organic C, C:N ratio, pH, EC); dbh; diameter; height

160

CROMER, R. N. AND TURNBULL, C. R. A. 1994.

Productivity of eucalypt plantations on ex-pasture sites: too much of a good thing?*In: Faces of Farm Forestry. Proceedings of Australian Forest Growers Conference, Launceston, pp. 239-244*

Publication type: G **DataType:** GEN - Review, discussion or brief article
Stand Type: PL

Keywords:

copper deficiency; fertiliser - application or requirement; nutrient deficiencies (symptoms);
 nutrition - cycling or requirements or analysis; previous land use (effect of); Silviculture;
 site comparison (within experiment)

Data measured:

DATA - foliage N, Cu, deformity index

161

CROMER, R. N. AND WILLIAMS, E. R. 1982.

Biomass and nutrient accumulation in a planted Eucalyptus globulus (Labill.) fertilizer trial*Australian Journal of Botany 30: 265-278*

Publication type: E **DataType:** GD
Stand Type: PL

Keywords:

ammonium fertilisers; ammonium phosphate; ammonium sulphate; biomass - above-ground;
 biomass production; cultivation; establishment techniques; Eucalyptus globulus; Eucalyptus
 globulus subsp. globulus; fertiliser - application or requirement; fertilisers - nitrogen;
 fertilisers - phosphorus; foliar analysis; nutrition - cycling or requirements or analysis;
 Pivot 18; plant analysis; Silviculture; site preparation; Victoria; weed control

Data measured:

biomass; DATA - live branch and foliage fresh weight; disc wood and bark volume fresh and
 dry weight; plant component N and P; calculated: net primary production; dbh; height

162

CROMER, R. N.; WILLIAMS, E. R.; AND TOMPKINS, D. 1983.

Biomass and nutrient uptake in fertilized *E. globulus**Silvicultura* 32: 672-674

Publication type: E DataType: GD

Stand Type: PL

Keywords:

ammonium fertilisers; ammonium phosphate; ammonium sulphate; application rate; biomass - above-ground; biomass production; *Eucalyptus globulus*; fertiliser - application or requirement; foliar analysis; nutrition - cycling or requirements or analysis; plant analysis; plant composition; Silviculture; Victoria; weed control

Data measured:

biomass; DATA - trees in three diameter classes: dead and live branch weight, stem billets (diameter, fresh weight, bark thickness and weight, volume of disc wood), plant component analysis (biomass, N and P), stem wood volume; dbh; height; volume

163

DALE, G. 2000.

Forests on saline land becoming a reality*Agroforestry News* 9(2): 4-5

Publication type: G DataType: GD
GEN - Project description

Stand Type: PL

Keywords:

Eucalyptus camaldulensis x *E. globulus*; *Eucalyptus camaldulensis* x *E. grandis*; extension article; hybrid; irrigation; irrigation - saline water; land degradation; low rainfall site; saline site; salt tolerance; tree breeding; Victoria

Data measured:

DATA - height class distribution; height

164

DAVEY, S. M.; HOARE, J. R. L.; WAYTH, S. G.; AND SUTTON, J. C. 1995.

Forest and Wood Products compendium of Australian research in progress (No. 2)

Forest and Wood Products Research and Development Corporation and Bureau of Resource Sciences, Canberra

Publication type: D DataType:

Stand Type:

Keywords:

research directory; wood properties

165

DE BRAGANCA, L. F. S. 1986.

Survival of *Pinus pinaster* Ait. seedlings on second rotation (2R) sites in Gnangara plantation north of Perth, Western Australia*Research paper number 1, Department of Conservation and Land Management, Western Australia*

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

Agras; burning; cultivation; desiccation retardant; establishment techniques; fertiliser - application or requirement; fertilisers - nitrogen; furrowlining; gymnosperm; low rainfall site; *Pinus*; *Pinus pinaster*; planting stock; planting stock - root dipped; sand; Silviculture; site preparation; slash residue; soil amendments; soil type; superphosphate; water availability; Western Australia; wetting agents

Data measured:

height; height increment; survival

166

DE LITTLE, D. W. 1989.

Paropsine chrysomelid attack on plantations of *Eucalyptus nitens* in Tasmania*N. Z. Journal of Forest Science 19: 223-7*

Publication type: E DataType:
 Stand Type:

Keywords:

Chrysomelidae; damage (biotic agents, harvesting); *Eucalyptus nitens*; insect pests; plantation pests; Tasmania

167

DEPT FORESTRY QLD 1962.

Silvicultural research: Hoop Pine (*Araucaria cunninghamii*)*Extract from Annual report of the Department of Forestry, Queensland, 1962/63*

Publication type: G DataType: GEN - Project description
 Stand Type: PL

Keywords:

Araucaria; *Araucaria cunninghamii*; gymnosperm; hoop pine; pruning; Queensland; rainforest tree species (native); Silviculture; spacing; thinning

Data measured:

basal area; DATA - basal area increment

168

DICKINSON, G. R.; LEGGATE, W.; BRISTOW, M.; NESTER, M.; AND LEWTY, M. J.

Thinning and pruning to maximise yields of high value timber products from tropical and sub-tropical hardwood plantations*In: Snell, A. and Vize, S. (eds.) Proceedings of the Australian Forest Growers conference, "Opportunities for the New Millennium", Cairns convention Centre, 4-6 September 2000, pp. 32-42*

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

application timing; *Corymbia variegata*; establishment techniques; *Eucalyptus argophloia*; *Eucalyptus cloeziana*; *Eucalyptus pellita*; fertiliser - application or requirement; later age fertiliser; later-age thinning; pruning; Queensland; Silviculture; spacing; species/provenance comparison within silv. trial; thinning; weed control

Data measured:

dbh; height

169

DICKINSON, G.; LEWTY, M.; AND WHITE, P. 2001.

Growing eucalypt plantations in southern Queensland: Current forestry prescriptions and new directions*In: Proceedings of Managing and Growing Trees Training Conference 2, held 19-21 October 1998 at Kooralbyn Resort, Queensland*

Publication type: G DataType: GEN - Project description
 Stand Type:

Keywords:

application rate; *Eucalyptus cloeziana*; fertiliser - application or requirement; fertilisers - phosphorus; pruning; pruning method; Queensland; Silviculture; thinning; weed control

Data measured:

dbh; diameter; height

170

DIVISION OF FORESTRY QLD 1953.

Inter- and underplanting Red Cedar (*Cedrela toona*) in Queensland rain forest*Annual report of Division of Forestry Queensland 1952/53, p. 7*

Publication type: E DataType: GEN - Project description
 Stand Type: NF

Keywords:

Castanospermum australe; *Cedrela toona*; mixed species; Planting stock - stumps; Planting stock - wilding; Propagation, vegetative cuttings; Queensland; Rainforest tree species (native); *Toona ciliata*; underplanting

171

DORONILA, A. AND FOX, J. E. D. 1990.

Experimental conversion of established clover/ryegrass pasture to native woody species by direct seeding

Mulga Research Centre, School of Biology, Curtin University of Technology, 16 March 1990A report commissioned by the Griffin Coal Mining Co Ltd. Report No 28

Publication type:	E	DataType:
Stand Type:	DS - Mine Site	
	Rehabilitation	

Keywords:

Acacia baileyana; Acacia browniana; Acacia celastrifolia; Acacia drummondii; Acacia extensa; Acacia lateritica; Acacia myrtifolia; Acacia puchella; Acacia pycnantha; Bossiaea aquifolium; Bossiaea ornata; Calothamus quadrifidus; clover; cultivation; Daviesia cordata; establishment techniques; Eucalyptus accedens; Eucalyptus calophylla; Eucalyptus gomphocephala; Eucalyptus marginata; Eucalyptus patens; Eucalyptus resinifera; Eucalyptus robusta; Eucalyptus wandoo; fertiliser - application or requirement; fertilisers - nitrogen - phosphorus - potassium; glyphosate; Goodia lotifolia; Hardenbergia comptoniana; herbicide; Kennedia prostrata; land rehabilitation (mine); mine site; Mirbelia dilatata; NPK Red; Paraserianthes lophantha; pasture; Roundup; ryegrass; Silviculture; site preparation; Viminaria juncea; weed control; Western Australia

Data measured:

DATA - sown species abundance, percentage pasture and bare ground cover, soil conductivity and pH; height

172

DRANE, C. M. 1996.

Ecophysiological characteristics of eight rainforest species established in mixed-specied plantings

Doctor of Philosophy, University of Queensland

Publication type:	P	DataType:
Stand Type:		

Keywords:

Acacia melanoxylon; Argyrodendron trifoliolatum; black bean; blackwood; Castanospermum australe; Cryptocarya erythroxylon; Elaeocarpus angustifolius; Gmelina; Gmelina leichardtii; Grevillea robusta; physiology; Queensland; rainforest tree species (native); Rhodospaera rhodanthema; Species trial (only)

173

DREDGE, P. D. 1997.

Weed management in Forestry Tasmania plantations*Plantation Forestry Bulletin Number 1. Edition: December 1997, Division of Forest Research and Development, Forestry Tasmania.*

Publication type:	G	DataType:	GD GEN - Review, discussion or brief article
Stand Type:	PL		

Keywords:

establishment techniques; Eucalyptus nitens; extension article; herbicide; Pomaderis apetala; Silviculture; Tasmania; weed competition; weed control; weed control - mechanical; weed species - general list

Data measured:

DATA - weed density and height; height

174

DUNCAN, M. J.; STACKPOLE, D. S.; BAKER, T. G.; AND HOPMANS, P. 2000.

Plantation management working group (RWG5) research status report: Centre for Forest Tree Technology, Department of Natural Resources and Environment*Report by Centre for Forest Tree Technology, for Research Working Group 5, Biennial business meeting, 1-2 May 2000, Gympie, Queensland*

Publication type:	G	DataType:	GEN - Project description
Stand Type:	PL		

Keywords:

application timing; cultivation; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus nitens; Eucalyptus viminalis; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; gymnosperm; irrigation; irrigation - effluent; irrigation - fresh water; irrigation - rainfed treatment; mounding; non-timber product; Pinus; Pinus radiata; pruning; pruning method; ripping; rotation length; sawlogs; second rotation; Silviculture; site comparison (within experiment); site preparation; site selection; spacing; thinning; Victoria; weed control; weed control - second year

175

DUNGEY, H. S.; POTTS, B. M.; CARNEGIE, A. J.; AND ADES, P. K. 1997.

Mycosphaerella leaf disease: genetic variation in damage to Eucalyptus nitens, Eucalyptus globulus, and their F1 hybrid

Canadian Journal of Forest Research 27: 750-759

Publication type: A DataType:
Stand Type:

Keywords:

Eucalyptus globulus; Eucalyptus nitens; foliage damage; fungal disease; genotype; hybrid; pathogen; plantation pests; Species/provenance/clone/family trial (only); Tasmania; tree breeding

Data measured:

DATA - genetic analysis: heritabilities, parental breeding values; severity of leaf disease on adult and juvenile foliage of controlled crossed and open-pollinated families; dbh; height; increment; volume

176

DUNN, G. M.; CANT, M. S.; AND NESTER, M. R. 1994.

Potential of two tree shelters to aid the early establishment and growth of three Australian tree species on the Darling Downs, south-east Queensland

Australian Forestry 57(3): 95-97

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Casuarina cristata; economics; establishment techniques; Eucalyptus moluccana; growtube; Mauri guard; Melaleuca linariifolia; Queensland; Silviculture; species/provenance comparison within silv. trial; tree guard

Data measured:

diameter; height

177

DUNN, G. M.; HUTH, J. R.; AND LEWTY, M. J. 1997.

Coating nursery containers with copper carbonate improves root morphology of five native Australian tree species used in agroforestry systems*Agroforestry Systems* 37: 143-155

Publication type:	E	DataType:	GD
Stand Type:	NURS PL		

Keywords:

Acacia; Acacia holosericea; Casuarina cunninghamiana; Eucalyptus argophloia; Eucalyptus camaldulensis; foliar analysis; low rainfall site; Melaleuca bracteata; nursery practice - copper carbonate on pots; planting stock; Planting stock - tubed; Queensland; root systems; root-pruning; Silviculture; sowing time

Data measured:

DATA - nursery seedling height and diameter, root coiling score, foliar Cu; field planted seedling root morphology; diameter; height; survival

178

DUNN, G. M.; LOWE, K. F.; TAYLOR, D. W.; AND BOWDLER, T. M. 1994.

Early tree and pasture growth in an agroforestry system evaluating Albizia lebbeck, Casuarina cunninghamiana and Eucalyptus maculata in south-east Queensland*Tropical Grasslands* 28: 170-181

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

agroforestry; Albizia; Albizia lebbeck; Casuarina cunninghamiana; Chamaecrista rotundifolia; Chloris gayana; establishment techniques; Eucalyptus maculata; Fabaceae; Lotononis bainesii; multipurpose trees; pasture; Poaceae; Queensland; Silviculture; slope; spacing; species/provenance comparison within silv. trial; stand density; Stylosanthes scabra; tree competition; Trifolium repens

Data measured:

DATA - crown diameter, pasture yield, botanical composition, species frequency, slope; dbh; height; mortality; yield

179

DUNN, G. M.; TAYLOR, D. W.; NESTER, M. R.; AND BEETSON, T. B. 1994.

Performance of twelve selected Australian tree species on a saline site in southeast Queensland

Forest Ecology and Management 70: 255-264

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Casuarina cunninghamiana; Casuarina glauca; Eucalyptus camaldulensis; Eucalyptus grandis; Eucalyptus intermedia; Eucalyptus melliodora; Eucalyptus moluccana; Eucalyptus raveretiana; Eucalyptus robusta; Eucalyptus tereticornis; Melaleuca bracteata; Queensland; saline site; salinity comparison; Silviculture; soil type; species/provenance comparison within silv. trial; Tipuana tipu

Data measured:

DATA - soil salinity though profile (EM38 and conductivity meter); height; survival

180

EASTHAM, J. AND ROSE, C. W. 1990.

Tree/pasture interactions at a range of tree spacings in an agroforestry experiment. I. Rooting patterns

Australian Journal of Agricultural Research 41:

Publication type: E DataType:
Stand Type:

Keywords:

pasture; root systems; spacing

181

EASTHAM, J.; ROSE, C. W.; CAMERON, D. M.; RANCE, S. J.; AND TALSMAN, T. 1988.

The effect of tree spacing on evaporation from an agroforestry experiment

Agricultural and Forest Meteorology 42: 355-368

Publication type: P DataType:
Stand Type:

Keywords:

agroforestry; Cyperales; Eucalyptus grandis; evapotranspiration; pasture; plant water relations; Poaceae; Queensland; Setaria; Setaria sphacelata; Silviculture; Silvopastoral systems; spacing; water balance

182

EASTHAM, J.; ROSE, C. W.; CAMERON, D. M.; RANCE, S. J.; TALSMA, T.; AND CHARLES EDWARDS, D. A. 1990.

Tree/pasture interactions at a range of tree densities in an agroforestry experiment. III. Water uptake in relation to soil hydraulic conductivity and rooting patterns

Australian Journal of Agricultural Research 41: 709-18

Publication type: P DataType:
Stand Type: PL

Keywords:

agroforestry; Cyperales; Eucalyptus grandis; physiology; plant water relations; Poaceae; Queensland; Setaria; Setaria sphacelata; Silviculture; spacing; transpiration; water use

Data measured:

DATA - volumetric water content, soil water potential and hydraulic water conductivity, laboratory soil moisture characteristics; calculated: soil conductance

183

EASTHAM, J.; ROSE, C. W.; CAMERON, D. M.; RANCE, S. J.; TALSMA, T.; AND CHARLES EDWARDS, D. A. 1990.

Tree/pasture interactions at a range of tree densities in an agroforestry experiment. II. Water uptake in relation to rooting patterns

Australian Journal of Agricultural Research 41(4): 697-707

Publication type: P DataType:
Stand Type:

Keywords:

pasture; plant water relations; Queensland; root systems; Setaria sphacelata; Silviculture; spacing; water use

184

EASTHAM, J.; ROSE, C. W.; CHARLES EDWARDS, D. A.; CAMERON, D. M.; AND RANCE, S. J. 1990.

Planting density effects of water use efficiency of trees and pasture in an agroforestry experiment

New Zealand Journal of Forestry Science 20(1): 39-53

Publication type: P DataType:
Stand Type:

Keywords:

agroforestry; biomass production; Cyperales; Eucalyptus grandis; pasture; plant water relations; Poaceae; Queensland; Setaria; Setaria sphacelata; Silviculture; spacing; transpiration; water use efficiency

Data measured:

biomass; DATA - pasture evaporation rate, soil water content, transpiration rate per tree, water use efficiency, tree biomass production

185

EASTHAM, J.; SCOTT, P. R.; STECKIS, R. A.; BARTON, A. F. M.; HUNTER, L. J.; AND SUDMEYER, R. J. 1993.

Survival, growth and productivity of tree species under evaluation for agroforestry to control salinity in the Western Australian wheatbelt

Agroforestry Systems 21: 223-237

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Acacia; Acacia blakelyi; agroforestry; biomass - above-ground; biomass production; blue mallee; Chamaecytis proliiferus; coppice; cutting management; Eucalyptus angustissima; Eucalyptus calycogona; Eucalyptus camaldulensis; Eucalyptus dives; Eucalyptus horistes; Eucalyptus kochii spp. kochii; Eucalyptus kochii spp. plenissima; Eucalyptus loxophleba; Eucalyptus radiata; Eucalyptus spathulata; irrigation; low rainfall site; multipurpose trees; oil mallee; oil production; sand; Species trial (only); species/provenance comparison within silv. trial; Western Australia

Data measured:

biomass; DATA - canopy diameter, total biomass, leaf biomass yield, leaf cineole concentration; height; survival

186

EDGAR, J. G.; CRAIG, F. G.; AND STEWART, G. T. L. 1978.

Establishment and growth of plantation forests used for land disposal of

In: Forestry for quality of life. Proceedings of the Eighth World Forestry Congress, Jakarta, 16-28 Oct. 1978

Publication type: E DataType:
Stand Type:

Keywords:

Acacia; Acacia saligna; Casuarina cunninghamiana; Eucalyptus astringens; Eucalyptus botryoides; Eucalyptus camaldulensis; Eucalyptus citriodora; Eucalyptus cladocalyx; Eucalyptus crenulata; Eucalyptus cypellocarpa; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus leucoxylon; Eucalyptus maculata; Eucalyptus occidentalis; Eucalyptus saligna; Eucalyptus viminalis; Fabaceae; fertiliser - application or requirement; irrigation; Populus; Populus deltoides; Populus euramaricana I - 488; Salicaceae; Salix vitellina; sewage effluent; Silviculture; species/provenance comparison within silv. trial; Victoria

187

EDWARDS, P. B.; WANJURA, W. J.; AND BROWN, W. V. 1993.

Selective herbivory by Christmas beetles in response to intra specific variation in Eucalyptus terpenoids*Oecologia* 95: 551-7

Publication type:	B	DataType:
Stand Type:	NF	

Keywords:

Anoplognathus montanus; beetles (Coleoptera); Christmas beetles; cineole; defoliation; Eucalyptus blakelyi; Eucalyptus camaldulensis; Eucalyptus conica; Eucalyptus melliodora; Eucalyptus rubida; Eucalyptus sideroxylon; foliage damage; foliar analysis; insect pests; New South Wales; Scarabaeidae; species comparison; terpenoids

Data measured:

DATA - defoliation level, number of beetles, amount of beetle frass (weight), beetle reference collections, fresh leaf analysis (terpenoid, cineole, limonene, beta-phellandrene)

188

ELEK, J. A. 1997.

Assessing the impact of leaf beetles in eucalypt plantations and exploring options for their management*Tasforests* 9: 139-154

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

adjacent species; aerial spraying; beetles (Coleoptera); Chrysomelidae; Chrysophtharta bimaculata; defoliation - artificial; disbudding; Dominex 100; early larval instars; Eucalyptus nitens; Eucalyptus regnans; foliage damage; insect mortality; insect pests; insecticide; Novodor; pest control; plantation pests; Silviculture; Tasmania

Data measured:

DATA - eggs and larvae per shoot, MAI volume, insect development rate and efficiency of biomass conversion, insecticide canopy penetration; dbh; predominant height / mean dominant height

189

ELLIOTT, H. J. 1978.

Studies on the fireblight beetle, *Pyrgoides orphana* (Erichson) (Coleoptera: Chrysomelidae) and its effect on the growth of silver wattle in Tasmania*Australian Forestry* 41(3): 160-166

Publication type: A DataType: GD
 Stand Type: NF - regrowth

Keywords:

Acacia; *Acacia dealbata*; beetles (Coleoptera); *Eucalyptus regnans*; insect pests; plantation pests; *Pyrgoides orphana*; Tasmania

Data measured:

DATA - insect life cycle, parasitoids; timing and percent defoliation of *A. dealbata*, tree health; dbh; height

190

ELLIOTT, H. J.; BASHFORD, R.; AND GREENER, A. 1993.

Effects of defoliation by the leaf beetle, *Chrysophtharta bimaculata*, on growth of *Eucalyptus regnans* plantations in Tasmania*Australian Forestry* 56(1): 22-26

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

beetles (Coleoptera); biomass - above-ground; Chrysomelidae; *Chrysophtharta bimaculata*; cypermethrin; Deltamethrin; *Eucalyptus regnans*; foliage damage; insect pests; insecticide; pest control; plantation pests; Silviculture; Tasmania

Data measured:

basal area; biomass; DATA - annual growth rings, leaf and stem/branches above ground biomass, *C. bimaculata* population assessment (larval stages); diameter; height; height increment

191

ELLIS, R. C.; WEBB, D. P.; GRALEY, A. M.; AND ROUT, A. F. 1985.

The effect of weed competition and nitrogen nutrition on the growth of seedlings of *Eucalyptus delegatensis* in a highland area of Tasmania.

Australian Forest Research 15: 395-408

Publication type:	E	DataType:
Stand Type:	NURS	
	PL	

Keywords:

establishment techniques; *Eucalyptus delegatensis*; fertiliser - application or requirement; foliar analysis; herbicide; nutrition - cycling or requirements or analysis; Roundup; Silviculture; soil analysis; Tasmania; weed control; weed control - manual

Data measured:

DATA - seedling leaves, stem and roots: weight and chemical analysis (N, P, K, Ca, Mg); soil analysis (organic C, total N, extractable P, CEC, pH, mineral N); rate of nitrogen mineralization; pot trial seedling growth

192

ELLYARD, R. K. 1984.

Effect of root pruning at time of planting on subsequent root development of two species of *Eucalyptus*

Journal of Arboriculture 10(7): 214-216

Publication type:	E	DataType:
Stand Type:	PL	

Keywords:

Australian Capital Territory; deformation; establishment techniques; *Eucalyptus mannifera*; *Eucalyptus mannifera* ssp. *maculosa*; *Eucalyptus polyanthemos*; planting method; planting stock; root systems; root-pruning; Silviculture

Data measured:

DATA - extent of root curl, number of roots >5mm diameter, and angle (horizontal/vertical); height

193

ENGINEERING AND WATER SUPPLY DEPARTMENT, 1991.

Hardwood Irrigated Afforestation Trial Bolivar - field tour notes*Australian Forest Soils and Nutrition conference 3 - Pre-conference tour - Irrigation of trees with wastewater in South Australia and adjacent Victoria*

Publication type: E **DataType:** GEN - Experiment design
Stand Type: PL

Keywords:

Acacia; Acacia mearnsii; Acacia melanoxylon; Casuarina cunninghamiana; Casuarina glauca; Eucalyptus botryoides; Eucalyptus camaldulensis; Eucalyptus globulus subsp. globulus; Eucalyptus grandis; Eucalyptus maculata; Eucalyptus occidentalis; Eucalyptus rudis; fertiliser - application or requirement; irrigation; irrigation - effluent; irrigation - fresh water; saline site; Silviculture; South Australia; Species/provenance/clone/family trial (only)

Data measured:

DATA - soil water (pH, NO₃, PO₄, total P, SO₄, total Kjeldahl N, Ca, Mg, Na, K, total org. C, Cd, Cl, HCO₃), water table depth and salinity, chemical analysis, foliage analysis (N, P, K, Ca, Mg, Cu, Zn, Fe, Mn, Na, S, Bo, Al, Cl)

194

FAGG, P. C. 1988.

Weed control techniques for the establishment of Eucalyptus regnans plantations on pasture sites*Australian Forestry 51(1): 28-38*

Publication type: E **DataType:** GD
Stand Type: PL

Keywords:

Agripon; amitrole; application rate; Caragard Combi; Dalapon; establishment techniques; Eucalyptus regnans; Gesamil 50; Gesaprim / 80; Gesatop / 80/ 500 FW; glyphosate; herbicide; Kerb /50 WP; organophosphorus herbicides; post-plant herbicide application; pre-plant herbicide application; Propazine; propyzamide; Roundup; scalping (grading to remove uppermost topsoil); Silviculture; Simatrole D; simazine; site preparation; Victoria; weed control; weed control - manual; Weedazol TL Plus

Data measured:

DATA - tree length for leaning stems, weed control rating; height; survival

195

FAGG, P. C. AND MARKS, G. C. 1987.

Evaluation of tree species for planting on dieback-affected forest sites in East Gippsland*Research Report 324, Research and Development Section, Forest Management and Research Branch, Department of Conservation, Forests and Lands*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Angophora costata; coppice; dieback; Eucalyptus bosistoana; Eucalyptus botryoides; Eucalyptus camaldulensis; Eucalyptus cladocalyx; Eucalyptus crenulata; Eucalyptus cypellocarpa; Eucalyptus delegatensis; Eucalyptus elata; Eucalyptus fastigata; Eucalyptus globoidea; Eucalyptus globulus subsp. bicostata; Eucalyptus globulus subsp. globulus; Eucalyptus grandis; Eucalyptus maculata; Eucalyptus microcorys; Eucalyptus nitens; Eucalyptus obliqua; Eucalyptus pilularis; Eucalyptus regnans; Eucalyptus resinifera; Eucalyptus saligna; Eucalyptus sieberi; Eucalyptus viminalis; fencing; fertiliser - application or requirement; fertilisers - nitrogen - phosphorus - potassium; frost tolerance; fungal diseases - general list; gymnosperm; insect species - general list; Phytophthora cinnamomi; Pinus; Pinus elliotii; Pinus radiata; Silviculture; site comparison (within experiment); soil type; species/provenance comparison within silv. trial; vertebrate pests; Victoria; weed species - general list; wind damage

Data measured:

DATA - incidence of P. cinnamomi, observations of foliage colour and diseases, percent of cut stumps resprouted, expected dieback tolerance; dbh; height; survival

196

FAIRWEATHER, J. R. AND MCNEIL, D. 1997.

Early growth responses of Acacia melanoxylon to superphosphate, lime and boron*Australian Forestry 60(3): 202-206*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Acacia; Acacia melanoxylon; Colemanite; establishment techniques; Eucalyptus camaldulensis; Fabaceae; fertiliser - application or requirement; fertilisers - boron; fertilisers - phosphorus; foliar analysis; grazing; herbicide; lime; New Zealand; nurse crop; nutrition - cycling or requirements or analysis; soil type; superphosphate; terbutylazine; Timbor; Ulexite

Data measured:

DATA - diameter and height increment, basal diameter, foliar analysis (most common nutrients); height

197

FARM FORESTRY ADVISORY SERVICE 1998.

Growing eucalypts for high-grade sawlogs: TreeNote no. 1

Agriculture Western Australia and the Department of Conservation and Land Management

Publication type: E **DataType:** GD
GEN - Review, discussion or brief article

Stand Type: PL

Keywords:

economics; Eucalyptus globulus; pulpwood production; sawlogs; Western Australia; wide-spaced trees

Data measured:

diameter; height; volume; yield

198

FARROW, R. A.; FLOYD, R. B.; AND NEUMANN, F. G. 1994.

Inter-provenance variation in resistance of Eucalyptus globulus juvenile foliage to insect feeding

Australian Forestry 57: 65-68

Publication type: A **DataType:** GD

Stand Type: PL

Keywords:

autumn gum moth; Eucalyptus globulus; Eucalyptus globulus subsp. bicostata; Eucalyptus globulus subsp. globulus; Eucalyptus globulus subsp. pseudoglobulus; foliage damage; Geometridae; Hymenoptera; insect pests; irrigation; irrigation - effluent; irrigation - fresh water; leafblister sawfly; Lepidoptera; Mnesampela; Mnesampela privata; Pergidae; pest monitoring; pest resistance; Phylacteophaga; Phylacteophaga froggatti; plantation pests; Silviculture; species/provenance comparison within silv. trial; Species/provenance/clone/family trial (only); tree breeding; Victoria

Data measured:

DATA - defoliation level (individual leaves and proportion of crown), leaf necrosis, defoliation upper and lower canopy

199

FAUNT, K. 1998.

Current research into eucalypt pruning in NSW

In: Dyason, R.; Dyason, L.; and Garsden, R. (eds.) Australian Forest Growers biennial conference proceedings 'Plantation and regrowth forestry- a diversity of opportunity', Lismore NSW 6-9th July 1998

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Eucalyptus cloeziana; Eucalyptus dunnii; Eucalyptus grandis; Eucalyptus pilularis; New South Wales; pruning; site comparison (within experiment); species/provenance comparison within silv. trial

Data measured:

DATA - dbh increment, green crown height, pruned height, crown radius, branch location, diameter, angle and height, branch completeness, condition, trees suitable for pruning,; dbh; height; height increment

200

FEIKEMA, P. M. AND MORRIS, J. 1998.

Stem diameter growth and water relations of Eucalyptus growing over shallow saline groundwater

Fifth national conference and workshop on the productive use and rehabilitation of saline lands, Tamworth, March 1998

Publication type: E DataType:
Stand Type: PL

Keywords:

plant water relations; Victoria

Data measured:

diameter

201

FEIKEMA, P. M. AND MORRIS, J. AND COLOPY, J. 1997.

Stem diameter investigations of plantation Eucalyptus in northern Victoria

Murray Darling Workshop 97, Wagga Wagga, August 1997

Publication type: E DataType:
Stand Type: PL

Keywords:

Victoria

Data measured:

diameter

202

FERRAND, J. C. 1982.

Study of growth stresses. Part 3: Eucalyptus delegatensis and E. nitens - effect of silviculture and site

Annales des Sciences Forestieres 39(4): 355-377

Publication type: W DataType:
Stand Type:

Keywords:

Eucalyptus delegatensis; Eucalyptus nitens; growth stress; Silviculture; spacing; thinning; Victoria; wood properties

203

FISHER, W. J. 1978.

Spacing, branch size, branch longevity and wood quality in plantations of hoop pine at Yarraman

Department of Forestry Queensland Technical Paper, Number: 12, 17 pp.

Publication type: E & W DataType: GD
Stand Type: PL

Keywords:

Araucaria; Araucaria cunninghamii; gymnosperm; hoop pine; Queensland; rainforest tree species (native); Silviculture; thinning; tree competition

Data measured:

basal area; DATA - branch diameter, bark thickness, percentage and position in crown for largest branch size, height to lowest green whorl, percentage dead branches; tree form

204

FLINN, D. W. 1976.

Nutrition of Eucalyptus globulus at Powelltown

Forestry Commission Victoria, Technical Paper 25: 5-7

Publication type: E DataType: GD
Stand Type: PL

Keywords:

establishment techniques; Eucalyptus globulus; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - nitrogen - phosphorus - potassium; fertilisers - phosphorus; fertilisers - urea; foliar analysis; gypsum; nutrition - cycling or requirements or analysis; Silviculture; trace elements; Victoria

Data measured:

DATA - young mature leaves analysis (N, P, K); height

205

FLINN, D. W. 1977.

Use of fertilisers on farm woodlots*AFDI For. Conf., Traralgon, Victoria, Pap. and Proc. Part 1: 110-113*

Publication type: G DataType: GD
 Stand Type: PL

Keywords:

BloodandBone; establishment techniques; Eucalyptus globulus; Eucalyptus nitens; fertiliser - application or requirement; fertiliser - manure, animal products, bonemeal; fertilisers - nitrogen; fertilisers - nitrogen - phosphorus - potassium; fertilisers - potassium; Magamp; Silviculture; soil type; trace elements; Victoria

Data measured:

survival; volume

206

FLINN, D. W.; STEWART, H. T. L.; AND O'SHAUGHNESSY, P. J. 1979.

Screening of weedicides for overspraying Eucalyptus, Pinus and Casuarina on clay soils irrigated with treated effluent*Australian Forestry 42: 215-225*

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

application rate; Caragard 500 FW; Casoron G; Casuarina cunninghamiana; chlorthal; chlorthiamid; Dacthal /W 75; dichlobenil; Eucalyptus botryoides; Eucalyptus camaldulensis; Eucalyptus globulus subsp. globulus; Eucalyptus grandis; Gesamil 50; Gesatop / 80/ 500 FW; Goal; gymnosperm; herbicide; irrigation; irrigation - effluent; Kerb /50 WP; nitrofen; oxyfluorfen; Pinus; Pinus radiata; post-plant herbicide application; Prefix; Propazine; propyzamide; sand; sewage effluent; Silviculture; simazine; soil analysis; species/provenance comparison within silv. trial; terbumeton; terbuthylazine; Tok E-25; Victoria; weed control; weed species - general list

Data measured:

DATA - weed cover classes, soil: texture, bulk density, particle size distribution, plasticity index, linear shrinkage, soil particle density, pH, infiltration rate; diameter; height; volume

207

FLINT, L. 2000.

Organic waste utilised in power plantation*Bush Telegraph (State Forests of New South Wales) Nov 2000-Jan 2001: 7*

Publication type: E DataType:
 Stand Type:

Keywords:

biosolids; Camden white gum; Eucalyptus argophloia; Eucalyptus maculata; extension article; New South Wales; non-timber product

208

FLOYD, R. AND CUNNINGHAM, S. 2000.

Coordinated effort to beat the cedar tip moth*Onwood* 29: 5

Publication type: G **DataType:** GEN - Project description
Stand Type:

Keywords:

Asia; extension article; fertiliser - application or requirement; insect pests; insecticide; nurse crop; pest control; plantation pests; red cedar; Species/provenance/clone/family trial (only); *Toona ciliata*; underplanting

209

FLOYD, R. B.; FARROW, R. A.; AND NEUMANN, F. G. 1994.

Inter- and intra-provenance variation in resistance of red gum foliage to insect feeding*Australian Forestry* 57: 45-48

Publication type: A **DataType:**
Stand Type: NF
 PL

Keywords:

Cardiaspina; *Cardiaspina albitextura*; *Cardiaspina retator*; *Eucalyptus blakelyi*; *Eucalyptus camaldulensis*; foliage damage; insect pests; irrigation; irrigation - fresh water; *Mnesampela*; *Mnesampela privata*; New South Wales; *Phylacteophaga*; *Phylacteophaga froggatti*; plantation pests; provenance trial (only); Silviculture; site comparison (within experiment); Species/provenance/clone/family trial (only); Victoria

Data measured:

DATA - monthly level of foliage removal, leaf necrosis, major insect agent, damage score (upper and lower canopy)

210

FLOYD, R. AND GOLDIE, J. 1997.

Breeding resistance in eucalypts to insect attack*Trees and Natural Resources* 39(1): 16-19

Publication type: A **DataType:** GEN - Project description
Stand Type:

Keywords:

Cardiaspina; *Cardiaspina albitextura*; *Cardiaspina retator*; *Eucalyptus blakelyi*; *Eucalyptus camaldulensis*; *Eucalyptus globulus*; *Eucalyptus globulus* subsp. *globulus*; *Eucalyptus globulus* subsp. *pseudoglobulus*; *Eucalyptus grandis*; Geometridae; Hemiptera; Homoptera; Hymenoptera; insect pests; Lepidoptera; *Mnesampela*; *Mnesampela privata*; New South Wales; Pergidae; pest resistance; *Phylacteophaga*; *Phylacteophaga froggatti*; plantation pests; provenance trial (only); Psyllidae; Silviculture; Sternorrhyncha; tree breeding;

211

FOREST SERVICE QUEENSLAND 1953.

Eucalyptus pilularis thinning experiments*Report for the Director of Forest Service Queensland, 1952/53 (10)*

Publication type:	E	DataType:	GD
Stand Type:	NF		

Keywords:

Eucalyptus pilularis; Queensland; Silviculture; thinning

Data measured:

basal area; DATA - volume increment; dbh

212

FOREST SERVICE QUEENSLAND 1954.

Fertiliser experiments on Eucalyptus grandis*Report for the Director of Forest Service Queensland, 1953/54 (13)*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

establishment techniques; Eucalyptus grandis; fertiliser - application or requirement; later age fertiliser; Queensland; Silviculture; superphosphate

Data measured:

height; survival

213

FORESTRY COMMISSION NSW 1954.

Pruning of Hoop Pine*Report for the Forestry Commission of N.S.W. 1951/52 (10)*

Publication type:	E	DataType:	
Stand Type:			

Keywords:

Araucaria; Araucaria cunninghamii; gymnosperm; hoop pine; New South Wales; pruning; rainforest tree species (native); wind damage

214

FOX, J. E. D.; COLQUHOUN, M. P.; AND LEONE, J. 1987.

Comparative performance of four eucalyptus species grown on two coal mine interburden materials

Mulga Research Centre Journal 9: 39-44

Publication type: E DataType: GD
Stand Type: NURS

Keywords:

coal mine; Eucalyptus calophylla; Eucalyptus camaldulensis; Eucalyptus patens; Eucalyptus wandoo; fertiliser - application or requirement; fertilisers - nitrogen - phosphorus - potassium; mine site; Silviculture; soil type; species/provenance comparison within silv. trial; Western Australia

Data measured:

DATA - seedling dry weight, soil pH, mean shoot root ratio; height

215

FOX, L. R. AND MORROW, P. A. 1992.

Eucalypt responses to fertilization and reduced herbivory

Oecologia 89(2): 214-222

Publication type: E DataType: GD
Stand Type: NF

Keywords:

carbaryl (insecticide); establishment techniques; Eucalyptus pauciflora; Eucalyptus stellulata; fertiliser - application or requirement; fertilisers - nitrogen - phosphorus - potassium; foliage damage; insect pests; insecticide; New South Wales; nutrition - cycling or requirements or analysis; Osmocote; pest control; pesticides; plantation pests;

Data measured:

DATA - foliar analysis, initial leaf N, total N and P, total elemental N, leaf area, leaf dry weight, length of apical shoots; height

216

FRASER, D. AND DAVISON, E. M. 1985.

Stem cankers of Eucalyptus saligna in Western Australia

Australian Forestry 48(4): 220-226

Publication type: A DataType:
Stand Type:

Keywords:

Cankers; Coelomycetes; Coleoptera; Cryphonectria havanensis; Cytospora eucalypticola; Endothia havanensis; Eucalyptus saligna; Eumycota; fungal disease; insect pests; pathogen; plantation pests; Tryphocharia; Tryphocharia solida; Western Australia

217

FREMLIN, R. R. A. 1979.

The tolerance of *P. radiata* and various eucalypts to pre-plant applications of triazine herbicides*Internal report for Plantations Group Project Report, Department of Conservation and Land Management, Busselton, Western Australia*

Publication type:	E	DataType:
Stand Type:	PL	

Keywords:

application rate; atrazine; establishment techniques; *Eucalyptus calophylla*; *Eucalyptus camaldulensis*; *Eucalyptus cladocalyx*; *Eucalyptus globulus*; *Eucalyptus rudis*; *Eucalyptus wandoo*; Gesamil 50; Gesaprim / 80; Gesatop / 80/ 500 FW; gymnosperm; herbicide; hexazinone; phytotoxic effect; *Pinus*; *Pinus radiata*; pre-plant herbicide application; Propazine; sand; Silviculture; simazine; species/provenance comparison within silv. trial; Velpar; weed control; Western Australia

Data measured:

DATA - phytotoxicity assesment, height increment; height; survival

218

FREMLIN, R. R. A. 1991.

Differences in efficacy and phytotoxicity between pre-plant applications of atrazine and simazine for the establishment of *E. globulus* on sandy soils in Western Australia*Internal report for Plantations Group Project Report, Department of Conservation and Land Management, Busselton, Western Australia*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Agral 60 / 70; application rate; atrazine; establishment techniques; *Eucalyptus globulus*; glyphosate; herbicide; *Lolium rigidum*; phytotoxic effect; pre-plant herbicide application; *Rumex acetosella* (sorrel); ryegrass; sand; Silviculture; simazine; site comparison (within experiment); soil type; sorrel; weed control; weed species - general list; Western Australia

Data measured:

DATA - weed species present, percent ground cover, phytotoxicity assessment; diameter; height; survival

219

FREMLIN, R. R. A. 1993.

Site preparation for the establishment of state-owned plantations in Western Australia: an overview*Internal report for Department of Conservation and Land Management, Busselton, Western*

Publication type:	G	DataType:	GD
			GEN - Review, discussion or brief article
Stand Type:	PL		

Keywords:

burning; cultivation; establishment techniques; Eucalyptus globulus; furrowlining; gymnosperm; mounding; Pinus; Pinus pinaster; Pinus radiata; REVIEW; ripping; saline site; salinity comparison; sand; second rotation; Silviculture; site preparation; slash management; slash residue; weed control; Western Australia

Data measured:

biomass; DATA - crown volume index; survival; volume

220

FREMLIN, R. R. A. 1993.

Evaluation of "Dynamic Lifter" tablets for fertilising commercial tree species at the time of planting*Internal report (Summary of results) for Department of Conservation and Land Management, Busselton, Western Australia*

Publication type:	E	DataType:	GD
Stand Type:	NURS PL		

Keywords:

diammonium phosphate (DAP); Dynamic Lifter; establishment techniques; Eucalyptus globulus; fertiliser - application or requirement; fertiliser - manure, animal products, bonemeal; gymnosperm; NPK Red; outplanting; Pinus; Pinus radiata; sand; Silviculture; site comparison (within experiment); soil analysis; soil type; Western Australia

Data measured:

DATA - soil analysis (N, P, K), fertiliser analysis (N, P, K, Mn, Cu, Zn), height increment, volume index; diameter; height; survival

221

FREMLIN, R. R. A. 1993?.

Sulfometuron-methyl (Oust) - does it have a place in the establishment of E. globulus plantations?*Internal project report, Department of Conservation and Land Management, Busselton, Western Australia*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Arctotheca calendula; atrazine; cape weed; clover; dock; establishment techniques; Eucalyptus globulus; glyphosate; herbicide; Kikuyu; Oust; Pennisetum clandestinum; post-plant herbicide application; pre-plant herbicide application; Rumex acetosella (sorrel); sand; Silviculture; simazine; site comparison (within experiment); soil type; sorrel; sulfometuron methyl; Trifolium subterraneum; weed control; weed species - general list;

Data measured:

DATA - percent weed, sorrel, ryegrass and other cover, phytotoxicity (health of trees); height; survival; tree form

222

FREMLIN, R. R. A. 1994.

Control of weeds when establishing plantations on water catchment areas*Internal report for Department of Conservation and Land Management, Busselton, Western Australia*

Publication type:	G	DataType:	GD GEN - Project description
Stand Type:	PL		

Keywords:

application method; burning; cultivation; establishment techniques; furrowlining; gymnosperm; Pinus; Pinus pinaster; planting method; Silviculture; site preparation; slash management; slash residue; weed control; Western Australia

Data measured:

survival

223

FREMLIN, R. R. A. 1994?.

Second year weed control in E. globulus plantations*Internal Progress report, Department of Conservation and Land Management, Western Australia*

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

amitrole; application method; Arctotheca calendula; atrazine; barley grass; cape weed; clopyralid; clover; couch; Cynodon dactylon; dock; Erigeron bonariensis; establishment techniques; Eucalyptus globulus; fleabane; haloxyfop-methyl; herbicide; Holcus lantanas; Hordeum leporinum; Kikuyu; Lolium rigidum; Lythrum hyssopifolia; oryzalin; oxyfluorfen; Pennisetum clandestinum; phytotoxic effect; Rumex acetosella (sorrel); rush; ryegrass; Silviculture; simazine; sorrel; sulfometuron methyl; weed control; weed control - second year; weed species - general list; Western Australia; Yorkshire fog

Data measured:

DATA - weed species present, percent ground cover, phytotoxicity assessment; diameter; height

224

FREMLIN, R. R. A. 1995.

Weed control in newly planted E. globulus plantations*Internal Progress report, Department of Conservation and Land Management, Busselton, Western Australia*

Publication type: E DataType:
 Stand Type:

Keywords:

atrazine; establishment techniques; Eucalyptus globulus; Gesatop / 80/ 500 FW; herbicide; Oust; phytotoxic effect; post-plant herbicide application; Silviculture; simazine; Sulfometuron methyl; Terbacil; TL Plus (herbicide); weed control; Western Australia

Data measured:

DATA - phytotoxic effects

225

FREMLIN, R. R. A. 1996.

Summary of results of the *P. pinaster* containerised seedling and weed control trial established in 1995 at Gnangara

Internal project report, Department of Conservation and Land Management

Publication type: E DataType: GD
Stand Type: PL

Keywords:

bare rooted stock; container grown plants; cultivation; establishment techniques; furrowlining; gymnosperm; herbicide; hexazinone; mulching; *Pinus pinaster*; planting stock; Planting stock - tubed; ryegrass; Silviculture; site preparation; weed control; weed mat; Western Australia

Data measured:

diameter; height; survival

226

FREMLIN, R. R. A. 1996.

Post-plant weed control in newly established *E. globulus* plantations

Internal report for Department of Conservation and Land Management, Busselton, Western

Publication type: E DataType: GD
Stand Type: PL

Keywords:

application method; application rate; *Arctotheca calendula*; cape weed; clopyralid; establishment techniques; *Eucalyptus globulus*; glyphosate; haloxyfop-methyl; herbicide; *Lolium rigidum*; phytotoxic effect; post-plant herbicide application; *Rumex acetosella* (sorrel); ryegrass; sand; Silviculture; simazine; sorrel; weed control; weed species - general list; Western Australia

Data measured:

DATA - weed species present, percent ground cover, phytotoxicity assessment, height increment; diameter; health; height; percent ground cover

227

FREMLIN, R. R. A. 1996.

Summary results of the P. pinaster weed control and fertiliser trial established at Gnangara in 1995*Internal project report, Department of Conservation and Land Management, Busselton, Western Australia*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

application method; cultivation; establishment techniques; fertiliser - application or requirement; fertilisers - nitrogen - phosphorus - potassium; furrowlining; gymnosperm; herbicide; hexazinone; mulching; Pinus; Pinus pinaster; Silviculture; site preparation; weed control; weed mat; Western Australia

Data measured:

diameter; height; survival

228

FREMLIN, R. R. A. 1996?.

Initial fertiliser requirements of E. globulus on farmland*Internal report for Plantations Group Project Report, Department of Conservation and Land Management, Western Australia*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

establishment techniques; Eucalyptus globulus; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - nitrogen - phosphorus - potassium; fertilisers - phosphorus; fertilisers - potassium; nutrition - cycling or requirements or analysis; Silviculture; site comparison (within experiment); soil analysis; Western Australia

Data measured:

DATA - soil analysis (texture, percent gravel, colour, P, N, K, S, org. C, Fe, EC, pH); diameter; height; survival

229

FREMLIN, R. R. A. 1996?.

Integrating commercial tree growing with farming: Establishment techniques*Thesis for Postgraduate Certificate in Forest Science (Farm forestry), Department of Conservation and Land Management, Busselton, Western Australia*

Publication type: G **DataType:** GD
 GEN - Review, discussion or brief article

Stand Type: PL

Keywords:

application method; application timing; Brush-Off; cultivation; establishment techniques; Eucalyptus globulus; furrowlining; glyphosate; gymnosperm; herbicide; hexazinone; insect pests; insect species - general list; Metsulfuron; mounding; Oust; Pinus; Pinus pinaster; Pinus radiata; Pinus taeda; REVIEW; ripping; sand; Silviculture; site comparison (within experiment); site preparation; soil type; species/provenance comparison within silv. trial; Sulfometuron methyl; Velpar; weed control; weed species - general list; Western Australia

Data measured:

height; survival; volume

230

FREMLIN, R. R. A. 1996?.

Control of weeds when establishing plantations on water catchment areas*Internal report for Department of Conservation and Land Management, Busselton, Western*

Publication type: E **DataType:**

Stand Type: PL

Keywords:

amitrole; application method; Arctotheca calendula; cape weed; clopyralid; clover; Erodium spp; establishment techniques; Eucalyptus globulus; fertiliser - application or requirement; Gesatop / 80/ 500 FW; haloxyfop-methyl; herbicide; Lolium rigidum; Oust; post-plant herbicide application; Rumex acetosella (sorrel); ryegrass; sand; Silviculture; simazine; site comparison (within experiment); soil type; sorrel; storksbill; sulfometuron methyl; TL Plus (herbicide); Trifolium subterraneum; Verdict; weed control; weed species - general list; Western Australia

Data measured:

DATA - soil analysis (N, P, K), percentage bare ground, Tree Volume Index increment; diameter; height; percent ground cover

231

FREMLIN, R. R. A. 1998.

Sulfometuron-methyl as an alternative to simazine for the establishment of E. globulus plantations*Internal project report, Department of Conservation and Land Management, Busselton, Western Australia*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

establishment techniques; Eucalyptus globulus; Gesatop / 80/ 500 FW; glyphosate; herbicide; Oust; Roundup; Rumex acetosella (sorrel); sand; Silviculture; simazine; site comparison (within experiment); soil texture; sorrel; sulfometuron methyl; weed control; Western Australia

Data measured:

DATA - percent weed and sorrel cover; diameter; height; survival

232

FREMLIN, R. R. A. AND MISIC, D. 1999.

Economics of second year weed-control in Eucalyptus globulus plantations established for chipwood-production in Western Australia*In: Ellis, R. C. and Smethurst, P. J. (eds.) Practising forestry today. Proceedings of the Institute of Foresters of Australia 18th Biennial Conference 3-8 October 1999 in Hobart, Tasmania, pp.*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

application method; economics; establishment techniques; Eucalyptus globulus subsp. globulus; herbicide; pulpwood production; sand; Silviculture; site comparison (within experiment); soil type; weed competition; weed control; weed control - second year; weed species - general list; Western Australia

Data measured:

DATA - percent bare ground, volume and increment

233

GARTHE, R. J. 1983.

Pole production from Gympie Messmate (*Eucalyptus cloeziana* F. Muell.) plantations in south east Queensland*Queensland Forestry Department*

Publication type:	E	DataType:
Stand Type:	demonstration/routine management plot	

Keywords:economics; *Eucalyptus cloeziana*; poles; products; Queensland; site index**Data measured:**

basal area; DATA - CAI (dbh, volume), number of pole length trees/ha, pole value per size; dbh; predominant height / mean dominant height; volume

234

GERRAND, A. M.; MEDHURST, J. L.; AND NEILSEN, W. A. 1997.

Research results for thinning and pruning eucalypt plantations for sawlog production in Tasmania*Forests and Forest Industry Council, Forestry Tasmania*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:*Eucalyptus globulus*; *Eucalyptus nitens*; *Eucalyptus regnans*; pest control; pruning; Silviculture; spacing; species/provenance comparison within silv. trial; Tasmania; thinning**Data measured:**

basal area; DATA - MAI, volume for selected best stems, volume CAI, merchantability classes, form defect severity class, percent multiple stems, branch size class, dbh of select best stems, low pruning time, percent damaged stems from pruning and thinning; dbh; height; predominant height / mean dominant height; volume

235

GERRAND, A. M. AND NEILSEN, W. A. 1999.

Comparing square and rectangular spacings in *Eucalyptus nitens* using a scotch plaid design*Forest Ecology and Management 129: 1-6*

Publication type:	E	DataType:
Stand Type:	PL	

Keywords:branch architecture; *Eucalyptus nitens*; Silviculture; spacing; stand design; Tasmania**Data measured:**

DATA - height to first green branch, stem straightness, presence of forks and ramiforms; branches on lower stem: number > 35mm diam, size, height, straightness, orientation and direction to inter-row; dbh; height; tree form

236

GERRAND, A. M.; NEILSEN, W. A.; AND MEDHURST, J. L. 1997.

Thinning and pruning eucalypt plantations for sawlog production in Tasmania

Tasforests 9: 15-34

Publication type: E DataType: GD
Stand Type: PL

Keywords:

economics; equipment; Eucalyptus globulus; Eucalyptus nitens; Eucalyptus regnans; pruning; pruning method; sawlogs; Silviculture; spacing; species/provenance comparison within silv. trial; Tasmania; thinning

Data measured:

DATA - branch angle, merchantability classes, percent stems damaged by pruning, percent branch stubs less than and greater than 2 cm diameter; height; tree form; volume; yield

237

GOODWIN, A. 1990.

Thinning response in eucalypt regrowth

Tasforests 2(1): 27-35

Publication type: E DataType:
Stand Type:

Keywords:

Eucalyptus obliqua; Eucalyptus regnans; Silviculture; Tasmania; thinning

238

GORONO, NELSON NHAMO 1991.

Analysis of early growth performance of Acacia mangium Willd. in a provenance/progeny trial in Far North Queensland

Honours thesis, Australian National University, Canberra

Publication type: E DataType:
Stand Type:

Keywords:

Acacia; Acacia mangium; provenance trial (only)

239

GOULD, K. E. 1977.

Open root planting of Hoop pine in the Mary Valley.

Internal Report for Queensland Department of Forestry

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Araucaria; Araucaria cunninghamii; establishment techniques; gymnosperm; nursery practice; outplanting; planting date; planting method; planting stock; Queensland; rainforest tree species (native); Silviculture

Data measured:

DATA - height increment; height; survival

240

GREENWOOD, E. A. N.; BIDDISCOMBE, E. F.; ROGERS, A. L.; BERESFORD, J. D.; AND WATSON, G. D. 1994.

The influence of groundwater levels and salinity of a multi-specied tree plantation in the 500 mm rainfall region of south-western Australia

Agricultural and Water Management 25: 185-200

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

agroforestry; Eucalyptus camaldulensis; Eucalyptus cladocalyx var. nana; Eucalyptus flocktoniae; Eucalyptus leucoxylon; Eucalyptus occidentalis; Eucalyptus patens; Eucalyptus platypus var. heterophylla; Eucalyptus redunca; Eucalyptus robusta; Eucalyptus sargentii; Eucalyptus spathulata; Eucalyptus wandoo; groundwater level; land degradation; low rainfall site; piezometer; plant water relations; saline site; spacing; Species/provenance/clone/family trial (only); water use; Western Australia

Data measured:

DATA - overland water and salt flow, groundwater level and chloride content, diameter of largest stem, canopy size, rainfall chloride content, soil and aquifer salinity, direction of groundwater flow; leaf area index (LAI); survival

241

GREENWOOD, E. A. N.; BIDDISCOMBE, E. F.; ROGERS, A. L.; BERESFORD, J. D.; AND WATSON, G. D. 1995.

Growth of species in a tree plantation and its influence on salinity and groundwater levels in the 400 mm rainfall region of south-western Australia

Agricultural and Water Management 28: 231-243

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

agroforestry; Casuarina obesa; Eucalyptus astringens; Eucalyptus camaldulensis; Eucalyptus cladocalyx; Eucalyptus cladocalyx var. nana; Eucalyptus flocktoniae; Eucalyptus kondininensis; Eucalyptus leucoxydon; Eucalyptus loxophleba; Eucalyptus melliodora; Eucalyptus occidentalis; Eucalyptus patens; Eucalyptus platypus; Eucalyptus robusta; Eucalyptus sargentii; Eucalyptus spathulata; Eucalyptus wandoo; groundwater level; land degradation; low rainfall site; piezometer; plant water relations; saline site; sand; Species/provenance/clone/family trial (only); water use; Western Australia

Data measured:

DATA - canopy and individual leaf area, estimated crown volume, water table levels and chloride content, water use index (based on leaf area); soil, rainfall and aquifer chloride; diameter; leaf area index (LAI); survival

242

GRIFFIN, A. R.; WILLIAMS, E. R.; AND JOHNSON, K. W. 1982.

Early height growth and frost hardiness of Eucalyptus regnans provenances in twelve field trials in South-east Australia

Australian Forest Research 12: 263-79

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Eucalyptus obliqua; Eucalyptus regnans; frost tolerance; New South Wales; provenance trial (only); site comparison (within experiment); Tasmania; Victoria

Data measured:

height; survival

243

GROVE, T. S.; MALAJCZUK, N.; BURGESS, T.; THOMSON, B. D.; AND HARDY, G.

Growth responses of plantation eucalypts to inoculation with selected ectomycorrhizal fungi

Proceedings IUFRO Symposium 'Intensive forestry: the role of eucalypts', Durban, South Africa, Sept 1991, pp. 86-93

Publication type:	E	DataType:	GD
Stand Type:	NURS PL		

Keywords:

biomass - above-ground; ectomycorrhiza; establishment techniques; Eucalyptus diversicolor; Eucalyptus globulus; fertiliser - application or requirement; fertilisers - phosphorus; inoculation; mycorrhiza; Silviculture; site comparison (within experiment); soil type; species/provenance comparison within silv. trial; Western Australia

Data measured:

biomass

244

GROVE, T. S.; O'CONNELL, A. M.; MENDHAM, D.; BARROW, N. J.; AND RANCE, S. J.

Sustaining the productivity of tree crops on agricultural land in south-western Australia

A report for the RIRDC/LWRRDC/FWPRDC Joint Venture Agroforestry Program, RIRDC publication No 01/09, RIRDC project No CSF-53 A

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

burning; cover crop; cover crop - legume; Eucalyptus globulus; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; legume; low rainfall site; nutrition - cycling or requirements or analysis; pasture; rainfall; sand; site comparison (across experiments); site comparison (within experiment); slash management; slash residue; soil analysis; trash retention; Vicia sativa; Western Australia

Data measured:

DATA - soil pH, cations, C, P, OM microbial degradation, N, mineralizable N, seasonal rate of N mineralization; bark nutrient composition; plant bioassay study: leaf, branch, stem, bark analysis (dry weight, N, P), seedling height, diameter; dbh; height; volume

245

HAINES, P. 1994.

"Don't fence me out" - the search for livestock grazing management options amongst trees*In: Faces of Farm Forestry, Proceedings of Australian Forest Growers Conference, Launceston, Australian Forest Growers, pp. 185-189*

Publication type:	A	DataType:	GEN - Review, discussion or brief article
Stand Type:	PL		

Keywords:

Acacia; Acacia dealbata; Acacia melanoxylon; browsing; damage by livestock; Eucalyptus camaldulensis; Eucalyptus globulus subsp. bicostata; Eucalyptus globulus subsp. globulus; Eucalyptus maculata; Eucalyptus sideroxylon; grazing; livestock; oil content; pest control; plantation pests; repellents; REVIEW; sheep; Silviculture; vertebrate pests; Victoria

Data measured:

DATA - browsing score

246

HAINES, P. J.; BELL, A. B.; AND THATCHER, L. P. 1994.

Evaluation of some factors involved in reducing browsing damage to eucalypt trees by sheep*Australian Journal of Experimental Agriculture 34: 601-607*

Publication type:	E	DataType:
Stand Type:	PL	

Keywords:

agroforestry; D-ter; Eucalyptus camaldulensis; Eucalyptus globulus subsp. bicostata; Eucalyptus maculata; Eucalyptus sideroxylon; grazing; livestock; pasture; repellents; Replex; sheep; Silviculture; species comparison; Victoria

Data measured:

DATA - seedling browsing: foliar and stem damage score, number of leaves remaining; pasture availability

247

HALL, M. 1985.

Tolerance of Eucalyptus, Acacia and Casuarina seedlings to pre-emergent herbicides*Australian Forestry* 48(4): 264-266

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Acacia; Acacia saligna; application rate; Casuarina cunninghamiana; crop; establishment techniques; Eucalyptus maculata; Eucalyptus moluccana; Eucalyptus tereticornis; Fabaceae; Fluazifop; Fluazifop butyl; herbicide; New South Wales; oxadiazon; Propazine; propyzamide; Silviculture

Data measured:

DATA - seedling dry weight; survival

248

HALL, M. AND BURNS, M. 1991.

Weed control among planted and direct-seeded Eucalyptus, Acacia and Casuarina with the herbicides diphenamid, oryzalin, clopyralid and fluazifop-butyl*Australian Forestry* 54(1&2): 16-22

Publication type:	E	DataType:	GD
Stand Type:	DS NURS PL		

Keywords:

Acacia; Acacia baileyana; Acacia saligna; Agral 60 / 70; biomass - above-ground; Casuarina cunninghamiana; Casuarina glauca; clopyralid; diphenamid; Enide 50W; establishment techniques; Eucalyptus maculata; Eucalyptus melliodora; Fabaceae; Fluazifop; Fusilade; herbicide; Lolium rigidum; Lontrel L; New South Wales; Oryzalin; phytotoxic effect; post-plant herbicide application; pre-plant herbicide application; ryegrass; Silviculture; species/provenance comparison within silv. trial; Surflan; understory sampling; weed control; weed control - manual; weed species - general list

Data measured:

biomass; DATA - glasshouse: germination count, shoot and root dry weight; field trial: weed species present and numbe; tree seedling, grass and broad-leaved weeds dry weight; survival

249

HALL, M. J. 1959.

The effect of stocking density, site quality and age on the volume of pulpwood produced per acre [with discussion]*Appita Journal* 13(1): 22-9

Publication type:	M	DataType:
Stand Type:	NF	
	PL	

Keywords:

Eucalyptus obliqua; Eucalyptus sieberiana; gymnosperm; MODEL; Pinus radiata; pulpwood production; Silviculture; site comparison (within experiment); spacing; Stand density; Victoria

Data measured:

DATA - growth ring counts (tallest trees); calculated: volume increments, stand density index, site index, pulpwood yield; diameter; height; Increment volume relation to stand density; yield

250

HALL, M. J. AND RICHMOND, K. P. 1961.

Recent trends in Eucalypt reforestation in Gippsland, Victoria*Appita Journal* 15(1): 35-45

Publication type:	E	DataType:	GEN - Review, discussion or brief article
Stand Type:	DS		
	DS - Pelleted Seed		
	NURS		
	PL		

Keywords:

aerial sowing; Eucalyptus sieberiana; Pinus pinaster; planting stock; Planting stock - tubed; Seed pelleting; Silviculture; Victoria

251

HAMLET, A. AND MORRIS, J. 1996.

Effects of salinity on the growth of four Eucalyptus species in irrigated sites in northern Victoria*Trees for Profit Research Centre, University of Melbourne, August 1996*

Publication type:	E	DataType:
Stand Type:	PL	

Keywords:

irrigation; Victoria

252

HAND, F. C.; RAMSDEN, N. G.; AND MONCUR, M. W. 1995.

The use of systemic insecticide to control defoliating insects on Eucalyptus nitens (Deane and Maiden) Maiden*Tasforests 7: 19-25*

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

Eucalyptus nitens; insect pests; insecticide; Nuvacron; Perga affinis affinis; pest control; plantation pests; Silviculture; site comparison (within experiment); stem injection; Tasmania

Data measured:

DATA - flower bud numbers, crown browsing score; dbh; height

253

HANNA, D. AND SCHRALE, G. 1991.

What's on at the Bolivar HIAT? - design of the woodlot trial*Proc. workshop on appropriate waste management technologies, IAWPRC, Perth, WA, 4 pp.*

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

Acacia mearnsii; Acacia melanoxylon; Casuarina cunninghamiana; Casuarina glauca; economics; Eriococcus coriaceus; Eucalyptus botryoides; Eucalyptus camaldulensis; Eucalyptus globulus subsp. globulus; Eucalyptus grandis; Eucalyptus maculata; Eucalyptus occidentalis; Eucalyptus rudis; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; groundwater table; insect species - general list; irrigation; irrigation - effluent; irrigation - fresh water; Pergidae; Phylactophaga; saline site; South Australia; Species/provenance/clone/family trial (only); water use; windbreak

Data measured:

DATA - percent foliage damaged by insects; predominant height / mean dominant height

254

HARDING, J. M. 1988.

A study of the growth of Tagasaste seedlings (Chamaecyisus palmensis) with particular reference to phosphorus requirements and soil salinity*Honours thesis, Australian National University, Canberra*

Publication type: E DataType:
 Stand Type:

Keywords:

Chamaecyisus palmensis; fertiliser - application or requirement; saline site; Tagasaste

255

HARDMAN, J. R.; NICHOLSON, D. I.; AND MOORE, P. P. 1985.

The economics of agroforestry on the Atherton Tableland*Queensland Agricultural Journal* 111(4): 207-210

Publication type: G DataType:

Stand Type:

Keywords:

agroforestry; economics; financial; MODEL; *Pinus caribaea* var. *hondurensis*; Queensland; spacing

256

HARPER, R. J.; EDWARDS, J. G.; MCGRATH, J. F.; REILLY, T. J.; AND WARD, S. L.

Performance of *Eucalyptus globulus* plantations in south-western Australia in relation to soils and climate

In: Balancing productivity and drought risk in blue gum plantations, A plantations management workshop - Jointly presented by Bunnings Tree Farms, Department of Conservation and Land Management, CSIRO Forestry and Forest Products, and Timbercorp Eucalypts Limited, Karri Valley Resort, Pemberton WA, November 9-10, 1999

Publication type: E DataType: GD

Stand Type: demonstration/routine
management plot
PL

Keywords:

drought tolerance; *Eucalyptus globulus*; site comparison (across experiments); soil type; spacing; stand density; water availability; water stress; Western Australia

Data measured:

basal area; DATA - evaporation, rainfall, soil depth, soil total N per plantation site, presence of deep sands and ferricrete gravel; height

257

HARRIS, J. A. AND KASSABY, F. Y. 1986.

Root deformity and toppling in families of Mountain Ash up to eight years after planting*Forestry Commission Victoria, Research Report No. 320, August 1986, 17 pp.*

Publication type: E DataType:

Stand Type: PL

Keywords:

container grown plants; *Eucalyptus regnans*; fungal disease; *Phytophthora cinnamomi*; planting stock; root systems; Silviculture; site comparison (within experiment); Species/provenance/clone/family trial (only); toppling; Victoria

Data measured:

DATA - presence of *P. cinnamomi*, sapling health, root systems, toppled saplings; root deformity

258

HARRIS, J. A.; KASSABY, F. Y.; AND SMITH, I. W. 1985.

Variation in mortality in families of *Eucalyptus regnans* caused by *Phytophthora cinnamomi* up to five years after planting*Australian Forest Research* 15(1): 57-65

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:dieback; *Eucalyptus regnans*; fungal disease; genotype; *Phytophthora cinnamomi*; plantation pests; Species/provenance/clone/family trial (only); Victoria**Data measured:**

DATA - health rating, presence or absence of stem lesions - surveys over four years;

259

HARRIS, S. 2000.

Sugar gum provenance trial results*Agroforestry News* 9(2): 18-19 (and errata in Spring 2000 issue page 17)

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:*Eucalyptus cladocalyx*; extension article; provenance trial (only); site comparison (within experiment); soil type; Victoria**Data measured:**

DATA - form; dbh; diameter; height; survival; tree form

260

HATTON, T.; REECE, P.; TAYLOR, P.; AND MCEWAN K. 1998.

Does leaf water efficiency vary among eucalypts in water-limited*Tree Physiology* 18: 529-536

Publication type:	P	DataType:	GD
Stand Type:	PL		

Keywords:*Eucalyptus camaldulensis*; *Eucalyptus occidentalis*; groundwater table; low rainfall site; physiology; plant water relations; saline site; salinity comparison; Silviculture; South Australia; species/provenance comparison within silv. trial; transpiration; water use**Data measured:**

DATA - water use, tree leaf area, depth to ground water, mean daily transpiration; leaf area

264

HEUPERMAN, A. F.; STEWART, H. T. L.; AND WILDES, R. A. 1984.

The effect of eucalypts on water tables in an irrigation area of northern

Water Talk No. 52: 4-8, (Journal of the Rural Water Commission of Victoria)

Publication type: E DataType:
Stand Type:

Keywords:

groundwater table; irrigation; Species/provenance/clone/family trial (only); Victoria

Data measured:

height

265

HIGGS, M. L. AND RUDMAN, P. 1973.

The effects of fertilizing and thinning on wood properties of Eucalyptus

Appita Journal 27(1):51-55

Publication type: E & W DataType:
Stand Type: NF - regrowth

Keywords:

Eucalyptus regnans; fertiliser - application or requirement; fertilisers - nitrogen - phosphorus - potassium; Silviculture; thinning; Victoria; wood density; wood fibre; wood properties

Data measured:

plant morphology

266

HINGSTON, BOB AND MOORE, R. 1999.

Eucalypts for sawlogs: Notes for Agroforestry Expo '99 tour

Department of Conservation and Land Management, Western Australia

Publication type: E DataType: GD
Stand Type: PL

Keywords:

agroforestry; Corymbia maculata; economics; Eucalyptus microcorys; Eucalyptus saligna; grazing; sawlogs; Silviculture; species/provenance comparison within silv. trial; Western Australia; wide-spaced trees

Data measured:

diameter; height; volume

267

HOGG, B. AND NESTER, M. 1991.

Productivity of direct thinning regimes in south-east Queensland hoop pine plantations*Commonwealth Forestry Review* 70(1/2): 37-45

Publication type: E DataType:

Stand Type:

Keywords:

Araucaria; Araucaria cunninghamii; economics; gymnosperm; hoop pine; MODEL; Queensland; rainforest tree species (native); Silviculture; stand density; thinning

Data measured:

DATA - quadratic mean diameter; dbh; predominant height / mean dominant height; volume; yield

268

HOLLY, C.; LAUGHLIN, G. P.; AND BALL, M. C. 1994.

Cold-induced photoinhibition and design of shelters for establishment of eucalypts in pasture*Australian Journal of Botany* 42(2): 139-147

Publication type: P DataType: GD

Stand Type: PL

Keywords:

Australian Capital Territory; cold climate site; establishment techniques; Eucalyptus polyanthemos; photoinhibition; photosynthesis; physiology; shade; shelter (wind or cold); Silviculture; tree guard

Data measured:

DATA - quantum flux density, windspeed, wet and dry bulb temperature inside shelter and outside (ambient), leaf chlorophyll a fluorescence and quantum yield of O₂, seedling height increment

269

HOLZ, G. K.; SMETHURST, P. J.; PONGRACIC, S. 1999.

Responses to cultivation in eucalypt tree-farms in south-eastern Australia

In: Ellis, R. C. and Smethurst, P. J. (eds.) *Practising forestry today. Proceedings of the Institute of Foresters of Australia 18th Biennial Conference 3-8 October 1999 in Hobart, Tasmania*, pp.

Publication type: E DataType: GD

Stand Type: PL

Keywords:

Central Gippsland; cultivation; establishment techniques; Eucalyptus globulus; Eucalyptus nitens; mounding; ripping; Silviculture; site comparison (within experiment); site preparation; soil type; species/provenance comparison within silv. trial; Tasmania; Victoria

Data measured:

basal area; dbh; survival

270

HONEYSETT, J. L.; BEADLE, C. L.; AND TURNBULL, C. R. A. 1992.

Evapotranspiration and growth of two contrasting species of eucalypts under non-limiting and limiting water availability*Forest Ecology and Management* 50: 203-216

Publication type: P DataType: GD
 Stand Type: PL

Keywords:

Eucalyptus delegatensis; Eucalyptus nitens; evapotranspiration; physiology; plant water relations; Silviculture; Species/provenance/clone/family trial (only); Tasmania; water availability; water balance; water use; water use efficiency

Data measured:

DATA - soil water content, rainfall, evaporation; calculated: total water content of root zone, soil water deficit, volume increment; diameter; height; plant production

271

HONEYSETT, J. L.; WHITE, D. A.; WORLEDGE, D.; AND BEADLE, C. L. 1993.

Optimising the growth of plantation eucalypts in low rainfall zones with supplementary irrigation

In: Water issues in forests today. Proc. international symposium on forest hydrology, Canberra, November 1993.

Publication type: G DataType:
 Stand Type:

Keywords:

Eucalyptus globulus; Eucalyptus nitens; irrigation; low rainfall site; species/provenance comparison within silv. trial; Tasmania; water use

272

HONEYSETT, J. L.; WHITE, D. A.; WORLEDGE, D.; AND BEADLE, C. L. 1996.

Growth and water use of Eucalyptus globulus and E. nitens in irrigated and rainfed plantations*Australian Forestry* 59(2): 64-73

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

Eucalyptus globulus subsp. globulus; Eucalyptus nitens; evapotranspiration; irrigation; irrigation - fresh water; irrigation - rainfed treatment; low rainfall site; physiology; plant water relations; Silviculture; species/provenance comparison within silv. trial; Tasmania; water stress; water use

Data measured:

current annual increment (CAI); DATA - soil water content and deficit, predawn water potential, evaporation, rainfall; dbh; diameter; height; volume

273

HOOD, M. 2000.

Results of herbicide screening trials conducted in hardwood plantation establishment on the north coast of New South Wales from 1995 to 1999

In: Workshop on weed control in plantation forestry, University of Melbourne, School of Forestry, Creswick, 23-24 February 2000, Ed. Tomkins, Barry.

Publication type: B **DataType:** GEN - Review, discussion or brief article
Stand Type:

Keywords:

Arsenal; Brodal; Diuron; Dual; establishment techniques; Eucalyptus cloeziana; Eucalyptus dunnii; Eucalyptus grandis; Eucalyptus maculata; Eucalyptus nitens; Eucalyptus pilularis; Frenock; Goal; herbicide; Lontrel L; MCPA (post emergent herbicide); Metsulfuron; New South Wales; Oust; post-plant herbicide application; pre-plant herbicide application; R6447; Silviculture; simazine; Solicam; species/provenance comparison within silv. trial; Spinnaker; Stomp; Surflan; Terbacil; Trifluraline; Visor; weed control; weed species -

274

HOODA, A. K. AND WESTON, C. 1999B.

Nitrogen mineralization, denitrification and nitrate-leaching in soils of effluent-irrigated Eucalyptus globulus plantation

In: Ellis, R. C. and Smethurst, P. J. (eds.) Practising forestry today. Proceedings of the Institute of Foresters of Australia 18th Biennial Conference 3-8 October 1999 in Hobart, Tasmania, pp.

Publication type: P **DataType:**
Stand Type: PL

Keywords:

coppice; Eucalyptus globulus; irrigation; irrigation - effluent; nutrition - cycling or requirements or analysis; sewage effluent; Silviculture; stand density; Victoria

Data measured:

DATA - nitrate mineralisation, denitrification, leaching rates

275

HOODA, N. AND WESTON, C. J. 1999.

Influence of site and fertiliser addition on nutrient cycling in *Eucalyptus globulus* plantations in Gippsland, South-eastern Australia. I. Foliage and litter quality

Australian Journal of Botany 47: 189-206

Publication type: P DataType: GD
Stand Type: PL

Keywords:

biomass production; establishment techniques; *Eucalyptus globulus*; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; foliar analysis; nutrition - cycling or requirements or analysis; Silviculture; site comparison (within experiment); soil type; Victoria

Data measured:

biomass; DATA - recent and old foliage and litter chemical analysis (inorganic and organic P and N, sugars, phenols, organic matter content); dbh; height

276

HOODA, N. AND WESTON, C. J. 1999A.

Nutrient cycling and productivity response to fertilizer application in *Eucalyptus globulus* plantations in Gippsland

In: Ellis, R. C. and Smethurst, P. J. (eds.) Practising forestry today. Proceedings of the Institute of Foresters of Australia 18th Biennial Conference 3-8 October 1999 in Hobart, Tasmania, pp.

Publication type: P DataType:
Stand Type:

Keywords:

Eucalyptus globulus; fertiliser - application or requirement; fertiliser - foliar; fertilisers - nitrogen; fertilisers - phosphorus; litterfall; nutrition - cycling or requirements or analysis; phosphorus nitrogen ratio; Silviculture; site comparison (within experiment); Victoria

Data measured:

DATA - litterfall rates - total mass N and P content

277

HOPEWELL, G. AND LEGGATE, B. 2000.

Productivity and utilisation of first rotation Australian-grown Paulownia*Australian Forest Grower* 23(3): 21,30

Publication type: W DataType: GEN - Review, discussion or brief article

Stand Type: PL

Keywords:

extension article; New South Wales; Paulownia; site comparison (within experiment); wood density; wood properties

Data measured:

DATA - total log volume merchantable stem volume, MAI, green-off-saw recovery, heartwood proportion, accelerated in-ground durability, shrinkage data, adhesive bonding capacity, density, strength, stiffness, lyctine activity

278

HOPMANS, P.; STEWART, H. T. L.; FLINN, D. W; AND HILLMAN, T. J. 1990.

Growth, biomass production and nutrient accumulation by seven tree species irrigated with municipal effluent at Wodonga, Australia.*Forest Ecology and Management* 30: 203-211 (Also from: *Management of water and nutrient relations to increase forest growth. Proceedings of a seminar held 19-22 October 1987 at Canberra, Australia.* Eds. Nambiar, E. K. S.; Squire, R.; Cromer, R.; Turner, J.; and Boardman,

Publication type: E DataType: GD

Stand Type: PL

Keywords:biomass - above-ground; biomass production; *Casuarina cunninghamiana*; *Eucalyptus camaldulensis*; *Eucalyptus grandis*; *Eucalyptus saligna*; foliar analysis; gymnosperm; irrigation; irrigation - effluent; low rainfall site; nutrition - cycling or requirements or analysis; *Pinus*; *Pinus radiata*; plant composition; *Populus*; *Populus deltoides*; *Populus deltoides* x *P. nigra*; Salicaceae; sewage effluent; Silviculture; Species trial (only); species/provenance comparison within silv. trial; Victoria**Data measured:**

basal area; biomass; DATA - foliage and branch; above ground biomass, dry and fresh weight, nutrient analysis (N, P, Na, K, Ca, and Mg); chemical analysis of effluent; dbh; diameter; height; predominant height / mean dominant height; volume

279

HORNE, R. AND ROBINSON, G. 1990.

Growth response following variable espacement of 28-year-old alpine ash regeneration in New South Wales

Australian Forestry 53(4): 280-289

Publication type: E DataType: GD
Stand Type: NF - regrowth

Keywords:

Eucalyptus delegatensis; fire; New South Wales; Silviculture; spacing; stand density; thinning - natural; tree competition

Data measured:

basal area; DATA - tree growth rings, diameter class distribution, bole height, merchantable volume; dbh; diameter; predominant height / mean dominant height

280

HOY, N. T. 1992.

Establishment of trees on saline, waterlogged soils

Master of Applied Science, University of Central Queensland

Publication type: E DataType:
Stand Type:

Keywords:

Casuarina glauca; mounding; mulching; physiology; Queensland; saline site; water use; waterlogging

281

HOY, N. T.; GALE, M. J.; AND WALSH, K. B. 1994.

**Revegetation of a scalded saline discharge zone in central Queensland 1.
Selection of tree species and evaluation of an establishment technique**

Australian Journal of Experimental Agriculture 34(6): 765-776

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Alectryon diversifolius; Brachychiton populneus; Callistemon salignus; Callistemon viminalis; Canavalia maritima; Casuarina cristata; Casuarina cunninghamiana; Casuarina equisetifolia; Casuarina glauca; Casuarina littoralis; Casuarina obesa; Cupaniopsis anacardioides; establishment techniques; Eucalyptus alba; Eucalyptus albens; Eucalyptus argophloia; Eucalyptus camaldulensis; Eucalyptus citriodora; Eucalyptus crebra; Eucalyptus dunnii; Eucalyptus exerta; Eucalyptus kondininensis; Eucalyptus largiflorens; Eucalyptus maculata; Eucalyptus melliodora; Eucalyptus microcorys; Eucalyptus moluccana; Eucalyptus peltata ssp. peltata; Eucalyptus robusta; Eucalyptus saligna x E. grandis; Eucalyptus sargentii; Eucalyptus sideroxylon; Eucalyptus tereticornis; Eucalyptus tereticornis x E. camaldulensis; Eucalyptus tessellaris; fertiliser - application or requirement; fertilisers - calcium; Ficus spp.; gypsum; Lagunaria patersonii; land degradation; lime; Livistona decipiens; Lophostemon confertus; magnesite; Melaleuca armillaris; Melaleuca bracteata; Melaleuca quinquenervia; Melia azedarach L. var australasica; mounding; mulching; mulching - hay; mulching - plastic; mulching - sugarcane bagasse; multipurpose trees; Nauclea orientalis; Pandanus spp.; planting date; Queensland; rainforest tree species (native); saline site; salt tolerance; Silviculture; site preparation; soil amendments; soil type; Species trial (only); species/provenance comparison within silv. trial; Species/provenance/clone/family trial (only); waterlogging

Data measured:

DATA - soil electrical conductivity, ground water level (piezometers), current ground cover, ionic composition of the ground water; height; survival

282

HUDSON, R. B. AND JONES, R. M. 1963.

Tree establishment in semi-arid areas

Journal of the Soil Conservation Service N.S.W. 19(3): 162-7

Publication type: E DataType: GD
Stand Type: PL

Keywords:

claypan; erosion; Eucalyptus camaldulensis; fertiliser - application or requirement; foliar analysis; gypsum; land degradation; New South Wales; nutrient analysis; phytotoxic effect; Silviculture; site preparation; soil type; tree guard

Data measured:

DATA - leaf chloride content; height; survival

283

HUNT, M. 1993.

Ecophysiology of *Dicksonia antarctica*: Comparative water relations and the potential for dual crop silvicultural system in *Eucalyptus* plantations*Honours thesis, Plant Science, University of Tasmania*

Publication type:	P	DataType:
Stand Type:	PL	

Keywords:*Dicksonia antarctica*; mixed species; physiology; Tasmania

284

HUNT, M. A. AND BEADLE, C. L. 1998.

Whole-tree transpiration and water-use partitioning between *Eucalyptus nitens* and *Acacia dealbata* weeds in a short-rotation plantation in northeastern Tasmania*Tree Physiology* 18: 557-563

Publication type:	P	DataType:
Stand Type:	PL	

Keywords:*Acacia*; *Acacia dealbata*; *Eucalyptus nitens*; mixed species; physiology; plant water relations; Silviculture; site comparison (within experiment); Tasmania; transpiration; tree competition; water use; weed control**Data measured:**

DATA - transpiration (sap flow and mean daily sap flux values), soil water deficit, sapwood conductivity, radius and area, volume fractions of wood, water and air; dbh of individual trees only

285

HUNT, M. A.; BEADLE, C. L.; AND CHERRY, M. L. 1999.

Allometric relationships between stem variables and leaf area in planted *Eucalyptus nitens* (Deane and Maiden) Maiden and naturally regenerating *Acacia dealbata* Link.*New Zealand Journal of Forest Research* 29(2): 289-300

Publication type:	M	DataType:
Stand Type:	PL	

Keywords:*Acacia dealbata*; *Eucalyptus nitens*; mixed species; MODEL; site comparison (within experiment); Tasmania; weed competition**Data measured:**

DATA - for felled trees: height to base of crown, crown depth, sapwood area, height and diameter of branches, branch cross-sectional area, branch length, specific leaf area and fresh weight, foliage oven dry weight; leaf area

286

HUNT, M. A.; UNWIN G. L.; AND BEADLE C. L. 1999.

Effects of naturally regenerated *Acacia dealbata* on the productivity of a *Eucalyptus nitens* plantation in Tasmania, Australia

Forest Ecology and Management 117(1-3): 75-85

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Acacia; *Acacia dealbata*; *Eucalyptus nitens*; nutrition - cycling or requirements or analysis; Silviculture; site comparison (within experiment); soil analysis; stand density; Tasmania; weed competition; weed control

Data measured:

basal area; DATA - *Acacia dealbata* stem density, height to base of live crown, soil chemical analysis (total N, extractable P, exchangeable cations, Mg, C, Ca, K, Na, pH, electrical conductivity, loss of carbon on ignition); dbh; height; volume

287

HUTH, J. R. AND NESTER, M. R. 1997.

Improving the growth of *Casuarina glauca* on a saline site in south east Queensland

In: Managing and growing trees training conference, 8-10 October 1996, Bundaberg, Queensland, Department of Natural Resources, Queensland, pp. 184-188

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Casuarina glauca; establishment techniques; fertiliser - application or requirement; fertilisers - nitrogen - phosphorus - potassium; gypsum; land degradation; mounding; mulching; Queensland; saline site; salinity comparison; Silviculture; site preparation; tree guard

Data measured:

height

288

INCOLL, W. D. 1977.

Re-establishment of eucalypts following a rotation of radiata pine*Forestry Commission Victoria, Technical Paper 26: 11-17*

Publication type:	E	DataType:	GD
Stand Type:	DS PL		

Keywords:

establishment techniques; Eucalyptus delegatensis; Eucalyptus nitens; Eucalyptus regnans; gymnosperm; Pinus radiata; previous land use (effect of); second rotation; Silviculture; site comparison (within experiment); understorey sampling; Victoria

Data measured:

DATA - percent cover and number of species per habit class; height; survival

289

INCOLL, W. D. 1981.

Effects of thinning and initial stocking on growth of Eucalyptus camaldulensis*Forestry Commission Victoria, Research Report, September 1981, 17 pp.*

Publication type:	E	DataType:	GD
Stand Type:	NF		

Keywords:

coppice; Eucalyptus camaldulensis; New South Wales; thinning; Victoria

Data measured:

basal area; DATA - basal area increment, diameter increment; dbh; tree form

290

INCOLL, W. D. 1983.

Productivity of seedling and coppice eucalypt crops over short rotations*Forestry Commission Victoria, Research Report No. 223, June 1983, 12 pp.*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

application timing; biomass - above-ground; biomass production; BloodandBone; coppice; cutting management; establishment techniques; Eucalyptus globulus subsp. bicostata; Eucalyptus viminalis; fertiliser - application or requirement; fertiliser - manure, animal products, bonemeal; fertilisers - nitrogen - phosphorus - potassium; harvest timing; rotation length; Silviculture; spacing; species/provenance comparison within silv. trial; Victoria

Data measured:

biomass; DATA - stem diameter under and overbark, fresh and dry weight of branch, foliage, stemwood and stembark, number of stumps that coppiced, number of shoots/stump and height of tallest shoot; dbh; predominant height / mean dominant height

291

INCOLL, W. D. AND WEBB, A. W. 1975.

Girth and height growth patterns in mountain ash

Forestry Commission Victoria, Technical Paper 23: 15-19

Publication type:	E	DataType:	GD
Stand Type:	DS - Broadcast Sown NF		

Keywords:

Eucalyptus regnans; Victoria

Data measured:

dbh; diameter increment - monthly; height

292

INFOSCAN, 2000.

Australian Rural Research in Progress

Australian Rural Research Databases committee (ARRDC), a subcommittee of SCARM oversees the management of the ARRIP database by Infoscan (<http://www.infoscan.com.au/arrip/arrip.htm>)

Publication type:	D	DataType:
Stand Type:		

Keywords:

research directory

293

INSTITUTE OF FORESTERS AUSTRALIA, 1989.

Peter Jowett Hawkins bequest issue: summaries of research theses for higher degrees

Australian Forestry 52(3): 125-241

Publication type:	D	DataType:
Stand Type:	NF PL	

Keywords:

research directory; wood properties

294

JAMES, R. A. 1991.

Genetic variation of oil and growth characteristics in *Eucalyptus polybractea*

Honours thesis, Australian National University, Canberra

Publication type: E DataType:
Stand Type:

Keywords:

Eucalyptus polybractea; genotype; oil content

295

JAMES, R. N. AND TARLTON, G. L. 1990.

New approaches to spacing and thinning in plantation forestry. Proceedings of a IUFRO symposium held at the Forest Research Institute, Rotorua, New Zealand, 10-14 April 1989

FRI Bulletin. 1990, No. 151, Forest Research Institute; Rotorua; New Zealand, 360 pp.

Publication type: E DataType:
Stand Type:

Keywords:

Africa; America; British Isles; Chile; *Eucalyptus nitens*; Finland; France; Germany; gymnosperm; Irish Republic; Mediterranean Region; New Zealand; Nigeria; North America; Northern Europe; *Picea abies*; *Picea sitchensis*; Pinus; *Pinus caribaea*; *Pinus pinaster*; *Pinus radiata*; *Pinus sylvestris*; *Pinus taeda*; *Pseudotsuga menziesii*; Scandinavia; South America; Spacing; Sweden; Tasmania; thinning; UK; USA; West Africa; Western Europe

296

JOHNSON, S. E.; FERGUSON, I. S.; AND LI, R.-W. 1991.

Evaluation of a stochastic diameter growth model for mountain ash

Forest Science 37(6): 1671-1681

Publication type: M DataType: GEN - Experiment design
Stand Type: PL

Keywords:

Eucalyptus regnans; MODEL; Silviculture; spacing; Victoria

Data measured:

DATA - number of stems per diameter class, number dead trees and likely cause; dbh; predominant height / mean dominant height

297

JUDD, T. S.; BENNETT, L. T.; WESTON, C. J.; ATTIWILL, P. M.; AND WHITEMAN, P.

The response of growth and foliar nutrients to fertilizers in young *Eucalyptus globulus* (Labill.) plantations in Gippsland, southeastern Australia

Forest Ecology and Management 82: 87-101

Publication type: E DataType: GD
Stand Type: PL

Keywords:

establishment techniques; *Eucalyptus globulus*; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - nitrogen - phosphorus - potassium; fertilisers - phosphorus; fertilisers - potassium; foliar analysis; nutrition - cycling or requirements or analysis; phosphorus nitrogen ratio; Silviculture; site comparison (within experiment); soil type; trace elements; Victoria

Data measured:

DATA - foliar analysis (Ca, Mg, total N, P and K); dbh; height; volume

298

KEARNEY, D. 1999.

Characterisation of branching problems, changes caused by variations in initial stocking and implications for silviculture for *E. grandis* and *E. pilularis* plantations in the North Coast region of N.S.W.

Honours thesis, Australian National University, Canberra

Publication type: E DataType:
Stand Type:

Keywords:

branch architecture; *Eucalyptus grandis*; *Eucalyptus pilularis*; New South Wales; spacing

299

KEARNEY, D. 2000.

Effects of spacing on branching characteristics in *E. grandis* and *E. pilularis*

Cooperative Research Centre for Sustainable Production Forestry Pruning and thinning workshop (Collated handouts), Queensland Forestry Research Institute, Gympie 3-5 May 2000

Publication type: E DataType:
Stand Type: PL

Keywords:

Eucalyptus grandis; *Eucalyptus pilularis*; New South Wales; Silviculture; spacing

Data measured:

DATA - canopy class and depth, branch height, diameter, status; dbh; height

300

KEARNEY, D.; MONTAGU, K.; AND SMITH, G. 2001.

Pruning Eucalypts, maximising the production of clear wood in planted

Report to RIRDC

Publication type: G **DataType:** GEN - Review, discussion or brief article
Stand Type:

Keywords:

establishment techniques; Eucalyptus cloeziana; Eucalyptus dunnii; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus nitens; fertiliser - application or requirement; New South Wales; pruning; Queensland; Silviculture; spacing; Tasmania; thinning

Data measured:

DATA - height to green crown, percentage branches occluded; dbh; leaf area index (LAI)

301

KEENAN, R. J. 1995.

Mixed species rainforest plantations in north Queensland: operational experience and research results

In: Grodecki, A.; Aitchison, J. and Grimbeek, P. (eds.) Managing and growing trees, Training conference 8-10 October 1996, Bundaberg, Queensland, pp. 339-351

Publication type: E **DataType:** GD
Stand Type: PL

Keywords:

Acacia; Acacia auriculiformis; adjacent species; Cardwellia sublimis; establishment techniques; Eucalyptus pellita; Flindersia; Flindersia bourjotiana; Flindersia brayleyana; Flindersia pimenteliana; Grevillea baileyana; Grevillea robusta; mixed species; mulching; mulching - sugarcane bagasse; Queensland; Queensland maple; rainforest tree species (exotic); rainforest tree species (native); red cedar; Silviculture; Toona ciliata; tree guard; underplanting

Data measured:

basal area; DATA - bole length, percentage multiple leaders; dbh; height; survival; volume

302

KEENAN, R. J. 1997.

Plantation nutrition research

Paper presented at QFRI and CRCTREM Seminar on Nutrition Research in Tropical Tree Plantations, South Johnstone, August 22, 1997, pp. 1-10

Publication type: E **DataType:** GEN - Review, discussion or brief article

Stand Type:

Keywords:

Araucaria; Araucaria cunninghamii; biomass - above-ground; Eucalyptus grandis; fertiliser - application or requirement; fertilisers - nitrogen; foliar analysis; irrigation; nutrition - cycling or requirements or analysis; Queensland; rainforest tree species (native); Silviculture; species/provenance comparison within silv. trial; weed control

Data measured:

DATA - plant N composition, volume increment

303

KEENAN, R. J. 1998.

Farm forestry in the tropics: potential and pitfalls

In: Dyason, R; Dyason, L. and Garsden, R. (eds.) Australian Forest Growers biennial conference proceedings 'Plantation and regrowth forestry- a diversity of opportunity', Lismore NSW 6-9th July 1998, pp. 215-227. State Forests, DPIE, North Forest Products, and Northern Rivers Regional Development Board

Publication type: G **DataType:** GD
GEN - Review, discussion or brief article

Stand Type: demonstration/routine
management plot
PL

Keywords:

Agathis robusta; Cedrela odorata; Elaeocarpus grandis; Eucalyptus cloeziana; Eucalyptus grandis; Eucalyptus grandis X E. tereticornis hybrid; Eucalyptus microcorys; Eucalyptus pellita; Eucalyptus urophylla; Flindersia; Flindersia brayleyana; kauri; Khaya nyasica; Queensland; Queensland maple; rainforest tree species (exotic); rainforest tree species (native); red cedar; site comparison (across experiments); species comparison (general); teak; Tectona grandis; Toona ciliata

Data measured:

dbh; height

304

KEENAN, R. J. AND BRISTOW, M. 2001.

Effects of site preparation, weed control, and fertilisation on early growth of planted eucalypts on a farm forestry site in north Queensland*In: Proceedings Managing and Growing Trees Training conference II, held at Kooralbyn, Queensland, October 1998*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Basta; cultivation; establishment techniques; Eucalyptus grandis; Eucalyptus pellita; fertiliser - application or requirement; fertilisers - nitrogen - phosphorus - potassium; herbicide; mounding; Queensland; ripping; Silviculture; simazine; site preparation; species/provenance comparison within silv. trial; trace elements; weed control; weed control - mechanical

Data measured:

basal area; diameter; height

305

KEENAN, R. J.; HAMBLETON, A; ROBSON, K; AND WEBB, M. 1998.

Growth response of rainforest cabinet timber species to fertiliser application in North Queensland plantations.*In: Soils of Tropical Forest Ecosystems: Characteristics, Ecology and Management. Springer-Verlag.*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Agathis robusta; application rate; black bean; Castanospermum australe; Cedrela odorata; fertiliser - application or requirement; fertilisers - phosphorus; Flindersia; Flindersia brayleyana; kauri; Queensland maple; rainforest tree species (native); red cedar; site comparison (across experiments); site comparison (within experiment); species/provenance comparison within silv. trial; trace elements; Trifos

Data measured:

DATA - volume index; dbh; diameter; height

306

KEENAN, R. J.; LAMB, D.; AND SEXTON, G. 1995.

Experience with mixed species rainforest plantations in North Queensland*Commonwealth Forestry Review* 74(4): 315-321

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

Acacia; Acacia auriculiformis; adjacent species; Cardwellia sublimis; establishment techniques; Eucalyptus pellita; Flindersia; Flindersia bourjotiana; Flindersia brayleyana; Flindersia pimenteliana; Grevillea baileyana; Grevillea robusta; mixed species; mulching; mulching - sugarcane bagasse; planting date; Queensland; Queensland maple; rainforest tree species (exotic); rainforest tree species (native); red cedar; Silviculture; Toona ciliata; tree guard; underplanting

Data measured:

basal area; DATA - bole length, percentage multiple leaders; dbh; volume

307

KEENAN, R. J.; SEXTON, G.; AND LAMB, D. 1999.

Thinning studies in plantation-grown Queensland maple (Flindersia brayleyana F. Muell.) in north-east Queensland*International Forestry Review* 1(2): 71-78

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

Flindersia; Flindersia brayleyana; Queensland; Queensland maple; rainforest tree species (native); Silviculture; thinning

Data measured:

basal area; DATA - quadratic mean diameter (Dq), periodic MAI (PMAI), percent of maximum stand density index, mean dbh of select 100 sph, bole length; dbh

308

KEENAN, R. J.; SEXTON, G. AND LAMB, D. 2001.

How thinning affects growth of Queensland maple plantations*Queensland Forestry Network News* 6 (March 2001): 27

Publication type: G DataType: GEN - Review, discussion or brief article
 Stand Type: PL

Keywords:

extension article; Flindersia; Flindersia brayleyana; Queensland; Queensland maple; rainforest tree species (native); Silviculture; stand density; thinning

Data measured:

DATA - diameter increment, stand density index

309

KELLAS, J. D. 1993.

An analysis of Radiata Pine-pasture agroforestry systems

PhD thesis, University of Melbourne, 123 pp.

Publication type: E DataType: GD
Stand Type:

Keywords:

agroforestry; gymnosperm; pasture; Pinus radiata

310

KELLAS, J. D.; BIRD, P. R.; CUMMING, K. N.; KEARNEY, G. A.; AND ASHTON, A.

Pasture production under a series of Pinus radiata-pasture agroforestry systems in south-west Victoria

Australian Journal of Agricultural Research 46: 1285-97

Publication type: O DataType:
Stand Type: PL

Keywords:

agroforestry; gymnosperm; pasture; Pinus radiata; Victoria

311

KELLAS, J. D.; EDGAR, J. G. 1979.

Effects of sowing time and container type on height, growth and survival of seedlings of Eucalyptus regnans

Canadian Journal of Forest Research 9(4): 478-483

Publication type: E DataType: GD
Stand Type: NURS
PL

Keywords:

container grown plants; Eucalyptus regnans; outplanting; planting date; planting stock; Silviculture; sowing time; Victoria

Data measured:

height; survival

312

KEYS, M. G. 1979.

Growth of hickory ash as a plantation species and as an underplant in treated rainforest at Kuranda, North Queensland*Qld Department of Forestry Research Note No. 25, 4 pp.*

Publication type:	E	DataType:	GD
Stand Type:	NF		
	PL		

Keywords:

Araucaria cunninghamii; Flindersia; Flindersia brayleyana; Flindersia iffilaiana; Flindersia schottiana; hoop pine; mixed species; Pinus caribaea var. hondurensis; Queensland; Queensland maple; rainforest tree species (native); site comparison (across experiments); species comparison (general); underplanting

Data measured:

basal area; dbh; predominant height / mean dominant height

313

KHANNA, P. 1999.

Gains from planting eucalypts and acacias together*OnWood 23(1998/1999): 4*

Publication type:	G	DataType:	GEN - Review, discussion or brief article
Stand Type:			

Keywords:

Acacia; Acacia mearnsii; Eucalyptus globulus; mixed species; Silviculture; spacing; species/provenance comparison within silv. trial; Thailand; Victoria

314

KHANNA, P. K. 1997.

Comparison of growth and nutrition of young monocultures and mixed stands of Eucalyptus globulus and Acacia mearnsii*Forest Ecology and Management 94: 105-113*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Acacia; Acacia mearnsii; Eucalyptus globulus; Fabaceae; foliar analysis; mixed species; nitrogen fixing trees; nutrition - cycling or requirements or analysis; Silviculture; spacing; tree competition; Victoria

Data measured:

DATA - height and dbh increments, leaf area, leaf dry mass, foliage N and P concentrations, Acacia root nodule phosphatase activity, Eucalyptus and Acacia root N and P, soil moisture and N mineralisation; dbh; height; leaf area

315

KHANNA, P. K. AND CROWE, M. 2000.

Mixed plantations - imitating nature

Agroforestry News 9(1): 13

Publication type: G DataType:
Stand Type:

Keywords:

extension article; mixed species; Silviculture

316

KNIGHT, A. J. P.; BEALE, P. E.; AND DALTON G. S. 1998.

Direct seeding of native trees and shrubs in low rainfall areas and on non-wetting sands in South Australia

Agroforestry Systems 39: 225-239

Publication type: E DataType: GD
Stand Type: DS

Keywords:

2,4-DB; Acacia; Acacia ligulata; Acacia rigens; Allocasuarina muelleriana; broombush; Callitris preissii; Callitris verrucosa; Casuarina cristata; Dodonaea viscosa; equipment; establishment techniques; Eucalyptus dumosa; Eucalyptus gracilis; Eucalyptus incrassata; Eucalyptus oleosa; Eucalyptus porosa; fertiliser - application or requirement; Fusilade; glyphosate; herbicide; low rainfall site; Melaleuca acuminatum; Melaleuca lanceolata; Melaleuca uncinata; mulching; planting date; ripping; sand; scalping (grading to remove uppermost topsoil); Silviculture; site comparison (within experiment); site preparation; soil type; South Australia; species mix (direct seeding); species/provenance comparison within silv. trial; weed control; weed species - general list

Data measured:

DATA - number of seedlings established; survival

317

KROCKENBERGER, I.; WHITE, D.; BELL, R.; AND DELL, B. 1999.

Physiological responses to nitrogen application of plantation Eucalyptus

In: Balancing productivity and drought risk in blue gum plantations, A plantations management workshop - Jointly presented by Bunnings Tree Farms, Department of Conservation and Land Management, CSIRO Forestry and Forest Products, and Timbercorp Eucalypts Limited, Karri Valley Resort, Pemberton WA, November 9-10, 1999; pp. 20-22

Publication type: P **DataType:** GEN - Project description
Stand Type:

Keywords:

Eucalyptus globulus; fertiliser - application or requirement; fertilisers - nitrogen; foliar analysis; photosynthesis; physiological disorders; Silviculture; transpiration; Western Australia

Data measured:

DATA - foliar N concentration, photosynthetic response, assimilation rate, instantaneous transpiration efficiency

318

KUBE, P. D. 1993.

Establishment techniques and early growth of eucalypt seedlings on a high elevation grass site in Tasmania

Tasforests 5: 63-75

Publication type: E **DataType:** GD
Stand Type: PL

Keywords:

amitrole; atrazine; bare rooted stock; container grown plants; cultivation; Cyperales; establishment techniques; Eucalyptus delegatensis; Eucalyptus nitens; fertiliser - application or requirement; fertilisers - nitrogen - phosphorus - potassium; herbicide; high elevation site; mounding; planting stock; Poa; Poaceae; ripping; scalping (grading to remove uppermost topsoil); Silviculture; site preparation; species/provenance comparison within silv. trial; Tasmania; weed control

Data measured:

DATA - Annual height increment; height; survival

319

KUBE, P. D. AND BROOKS, S. J. 1996.

Evaluation of Acacia dealbata as a plantation species in Tasmania

Forestry Tasmania, and Forestry Industry Council

Publication type: E **DataType:**
Stand Type:

Keywords:

Acacia; Tasmania

320

KUBE, P. D.; BROOKS, S. J.; BROWN D. R.; AND PETERSON, M. 1997.

The use of *Acacia dealbata* as a plantation species in Tasmania: a summary of recent research*Tasforests* 9: 71-76

Publication type: G **DataType:** GEN - Review, discussion or brief article
Stand Type: PL

Keywords:

Acacia; *Acacia dealbata*; *Acacicola orphana*; beetles (Coleoptera); fireblight beetle; insect pests; pest control; plantation pests; provenance trial (only); Species trial (only); Tasmania

321

LAMB, D. AND BORSCHMANN, G. 1997.

Agroforestry with high value trees*Final report to Rural Industries Research and Development Corporation, Canberra. Project*

Publication type: E **DataType:** GD
Stand Type: PL

Keywords:

Acacia; *Acacia melanoxylon*; *Araucaria*; *Araucaria cunninghamii*; *Argyrodendron trifoliolatum*; black bean; blackwood; *Castanospermum australe*; *Cedrela odorata*; *Cryptocarya erythroxylon*; *Dysoxylum fraserianum*; *Dysoxylum mollissimum*; *Elaeocarpus grandis*; *Flindersia*; *Flindersia brayleyana*; *Flindersia schottiana*; *Gmelina*; *Gmelina leichardtii*; *Grevillea robusta*; hoop pine; *Khaya nyasica*; pasture; Queensland; Queensland maple; rainforest tree species (exotic); rainforest tree species (native); *Rhodosphaera rhodanthema*; silver quandong; Silviculture; spacing; Species trial (only); species/provenance comparison within silv. trial; *Toona ciliata*

Data measured:

dbh; diameter; height; tree form; volume

322

LAMB, D.; KEENAN, R. J.; BORSCHMANN, G.; SWANBOROUGH, P. W.; AND DOLEY, D. 1998.

Spacing and stem growth in tropical trees

In: Kikkawa, J.; Dart, P.; Doley, D.; Ishii, K.; Lamb, D.; and Suzuki, K. (eds.) Proceedings 6th international workshop of BIO-REFOR, Brisbane, Australia December 2-5, 1997, pp. 71-73

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Araucaria; Araucaria cunninghamii; Elaeocarpus angustifolius; Flindersia; Flindersia brayleyana; hoop pine; mixed species; Queensland; Queensland maple; rainforest tree species (native); silver quandong; Silviculture; spacing; species/provenance comparison within silv. trial

Data measured:

DATA - stem volume

323

LAMB, D. AND LAWRENCE, P. 1993.

Mixed species plantations using high value rainforest trees in Australia

In: Lieth, H. and Lohmann, M. (eds), Restoration of tropical forest ecosystems, 101-108, Kluwer Academic Publishers, Dordrecht/Boston/London

Publication type: G DataType:
Stand Type: PL

Keywords:

Araucaria; Araucaria cunninghamii; Cedrela odorata; Flindersia; Flindersia brayleyana; gymnosperm; hoop pine; mixed species; Pinus; Pinus elliottii; Queensland; Queensland maple; rainforest tree species (exotic); rainforest tree species (native); root systems; Silviculture; Swietenia macrophylla; underplanting

Data measured:

DATA - timing of leaf flush, density of roots, size class distribution (diameter and height)

324

LEON, A. 1989.

The Tasmanian Eucalyptus leaf beetle, Chrysophtharta bimaculata: an overview of the problem and current control methods*Tasforests* 1(1): 33-37

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

beetles (Coleoptera); Chrysomelidae; Chrysophtharta bimaculata; Coleoptera; early larval instars; Eucalyptus regnans; foliage damage; insect mortality; insect pests; insecticide; pest control; plantation pests; Silviculture; Tasmania

Data measured:

height increment

325

LEUNING, R. 1990.

Modelling stomatal behaviour and photosynthesis of Eucalyptus grandis*Australian Journal of Plant Physiology* 17: 159-175

Publication type:	P	DataType:	
Stand Type:	PL		

Keywords:

fertiliser - application or requirement; irrigation; MODEL; photosynthesis; physiology; Queensland; Silviculture; stomatal conductance; transpiration

Data measured:

DATA - leaf gas exchange (assimilation, transpiration), leaf temperature, air humidity, intercellular CO₂, leaf areas, stomatal conductance

326

LEUNING, R.; CROMER, R. N.; AND RANCE, S. 1991.

Spatial distributions of foliar nitrogen and phosphorus in crowns of Eucalyptus grandis*Oecologia* 88(4): 504-510

Publication type:	P	DataType:	GD
Stand Type:	PL		

Keywords:

Eucalyptus grandis; fertiliser - application or requirement; foliar analysis; irrigation; nutrition - cycling or requirements or analysis; photosynthesis; physiology; Queensland; Silviculture; species/provenance comparison within silv. trial

Data measured:

biomass; DATA - sample leaves: length, width, area, dry weight, N and P concentration, leaf position on branch; height to branch base, branch length, angle, number of leaves; gas exchange (assimilation rate, stomatal conductance, intercellular CO₂); leaf area; leaf area index (LAI)

327

LEUNING, R.; WANG, Y. P.; AND CROMER, R. N. 1991.

Model simulations of spatial distributions and daily totals of photosynthesis in Eucalyptus grandis canopies*Oecologia* 88(4): 494-503

Publication type:	M	DataType:
Stand Type:	PL	

Keywords:

Eucalyptus grandis; fertiliser - application or requirement; irrigation; MODEL; photosynthesis; physiology; Queensland; Silviculture

Data measured:

DATA - see Leuning FF1285 for measured data; Calc photosynthetic capacity, normalized leaf nitrogen distributions, net canopy assimilation

328

LEWTY, M. J. 1994.

Australian experience in forest plantation establishment: methods and technology*Paper presented at the international workshop on plantation establishment methods, Neuva Vizcaya, the Philippines. 29 pp.*

Publication type:	G	DataType:	GEN - Review, discussion or brief article
Stand Type:	NURS		

Keywords:

Araucaria; Araucaria cunninghamii; cultivation; establishment techniques; gymnosperm; hoop pine; Pinus caribaea; Queensland; rainforest tree species (native); REVIEW

329

LEWTY, M. J. AND LAST, I. 1998.

Hoop pine plantation management in Queensland*In: Dyason, R; Dyason, L; Garsden, R. (eds.) Australian Forest Growers biennial conference proceedings 'Plantation and regrowth forestry - a diversity of opportunity', Lismore 6-9th July 1998 Publisher: State Forests, DPI, North Forest Products, and Northern Rivers Regional Development Board, pp. 189-197*

Publication type:	G	DataType:	GD GEN - Review, discussion or brief article
Stand Type:	PL		

Keywords:

Araucaria; Araucaria cunninghamii; fertiliser - application or requirement; gymnosperm; hoop pine; Queensland; rainforest tree species (native); Silviculture; thinning; weed competition; weed control

Data measured:

height; volume

330

LEWTY, M. J. AND MADIN, R. W. 1984.

Screening of herbicides in hoop pine

In: Proceedings of the seventh Australian weeds conference, 1984, Volume I. 1984, pp. 233-238, Weed Society of Western Australia, Perth, Australia

Publication type: E DataType: GD
Stand Type: PL

Keywords:

application rate; Araucaria; Araucaria cunninghamii; Buthidazole; Chlorsulfuron; crop; Fluazifop butyl; gymnosperm; herbicide; phytotoxic effect; Queensland; rainforest tree species (native); Silviculture; Sulfometuron; Triclopyr

331

LI, H. AND MADDEN, J. L. 1995.

Analysis of leaf oils from a Eucalyptus species trial

Biochemical Systematics and Ecology 23(2): 167-177

Publication type: B DataType:
Stand Type:

Keywords:

Eucalyptus denticulata; Eucalyptus nitens; oil content; Species trial (only); Tasmania

332

LI, H.; MADDEN, J. L.; AND POTTS, B. M. 1995.

Variation in volatile leaf oils of the Tasmanian Eucalyptus species II. subgenus Monocalyptus

Biochem System Ecol 23: 299-318

Publication type: B DataType:
Stand Type:

Keywords:

oil content; Tasmania

333

LI, H.; MADDEN, J. L.; AND POTTS, B. M. 1996.

Variation in volatile leaf oils of the Tasmanian Eucalyptus species II. subgenus Symphyomyrtus

Biochem System Ecol 24(6): 547-569

Publication type: B DataType:
Stand Type:

Keywords:

oil content; Tasmania

334

LINDER, S.; BENSON, M. L.; MYERS, B. J.; AND RAISON, R. J. 1987.

Canopy dynamics and growth of *Pinus radiata*. I. Effects of irrigation and fertilization during a drought*Canadian Journal of Forest Research* 17: 1157-1165

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

ammonium fertilisers; ammonium sulphate; Australian Capital Territory; biomass - above-ground; biomass production; cold climate site; fertiliser - application or requirement; fertilisers - boron; fertilisers - potassium; gymnosperm; irrigation; later age fertiliser; *Pinus radiata*; plant water relations; Silviculture; superphosphate; trace elements; transpiration; water availability; water stress; water use

Data measured:

basal area; biomass; DATA - weather (air temperature, humidity, rainfall, radiation, wind speed and direction), soil water content, predawn water potential, main shoot, branch and needle length, diameter increment (2 weekly), LAI, litterfall (plant components); dbh; height; volume

335

LLOYD, P. 1998.

Farm forestry monitoring project 1997/98*Report to Noosa Landcare Farm Forestry, July 1998*

Publication type:	E	DataType:	GD
Stand Type:	demonstration/routine management plot PL		

Keywords:

Agathis robusta; *Araucaria*; *Araucaria bidwillii*; *Araucaria cunninghamii*; *Argyrodendron trifoliolatum*; black bean; *Blepharocarya involucrigeria*; *Castanospermum australe*; *Corymbia*; *Cryptocarya onoprienkoana*; *Diploglottis australis*; *Elaeocarpus grandis*; *Endiandra dicolor*; *Eucalyptus acmenoides*; *Eucalyptus citriodora*; *Eucalyptus cloeziana*; *Eucalyptus microcorys*; *Eucalyptus pilularis*; *Eucalyptus propinqua*; *Eucalyptus resinifera*; *Flindersia*; *Flindersia australis*; *Flindersia brayleyana*; *Flindersia schottiana*; *Flindersia xanthoxyla*; *Gmelina*; *Gmelina leichardtii*; *Grevillea robusta*; gymnosperm; *Harpullia pendula*; hoop pine; kauri; *Podocarpus elatus*; Queensland; rainforest tree species (native); red cedar; *Rhodosphaera rhodanthema*; silver quandong; *Sloanea woollsii*; species/provenance comparison within silv. trial; *Syncarpia glomulifera*; *Toona ciliata*

Data measured:

dbh; height; tree form

336

LU, X.; MALAJCZUK, N.; AND DELL, B. 1998.

Mycorrhiza formation and growth of Eucalyptus globulus seedlings inoculated with spores of various ectomycorrhizal fungi.

Mycorrhiza 8: 81-86

Publication type: E DataType:
Stand Type:

Keywords:

ectomycorrhiza; Eucalyptus globulus; Western Australia

337

LUKACS, ZOLTAN 1991.

Defoliation: its effects on the growth and drought-avoidance of juvenile Eucalyptus nitens (Dean & Maiden) Maiden

Honours thesis, Australian National University, Canberra

Publication type: E DataType:
Stand Type:

Keywords:

damage (biotic agents, harvesting); drought tolerance; Eucalyptus nitens

338

MACDONALD, F. 2000.

Eucalypt hybrids: increasing economic productivity from saline land

Agroforestry News 9(2): 3

Publication type: G DataType: GEN - Project description
Stand Type: demonstration/routine
management plot

Keywords:

Eucalyptus camaldulensis x E. grandis; extension article; hybrid; irrigation; irrigation - effluent; New South Wales; saline site; salinity comparison; Silviculture

Data measured:

dbh; height; survival

339

MARCAR, N. E.; CRAWFORD, D. F.; NICHOLSON, A. T.; AND BENYON, R. 1996.

Tree growth and water use on a saline site near Wellington, NSW

In: Dyason, R.; Dyason, L.; and Garsden, R. (eds.) Australian Forest Growers biennial conference proceedings 'Plantation and regrowth forestry- a diversity of opportunity', Lismore NSW 6-9th July 1998 p. 288 (abstract)

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Acacia; Acacia stenophylla; Eucalyptus camaldulensis; Eucalyptus globulus; Eucalyptus occidentalis; low rainfall site; Melaleuca halmaturorum; New South Wales; plant water relations; saline site; salinity comparison; salt tolerance; Silviculture; site comparison (within experiment); species/provenance comparison within silv. trial; water use

Data measured:

DATA - damage from insect attack, sap flow, soil water content; dbh; height

340

MARCAR, N. E.; HOSSAIN, A. K. M. A.; CRAWFORD, D. F.; NICHOLSON, A. T. 2000.

Evaluation of tree establishment treatments on saline seeps near Wellington and Young in New South Wales

Australian Journal of Experimental Agriculture 40(1): 99-106

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Acacia; Acacia stenophylla; Atriplex; Atriplex nummularia; Casuarina cunninghamiana; establishment techniques; Eucalyptus camaldulensis; fertiliser - application or requirement; land degradation; low rainfall site; Melaleuca halmaturorum; mulching; mulching - hay; New South Wales; Osmocote; planting stock; pre-conditioning; saline site; Silviculture; species/provenance comparison within silv. trial; Starter 15 (fertiliser); tree guard

Data measured:

DATA - height to base of green crown, crown diameter, average root-zone salinity (EM38), soil cores (texture, EC); calculated: apparent conductivity (ECa), crown volume index; dbh; diameter; height; survival

341

MARCAR, N. E.; LEPPERT, P. M.; NICHOLSON, A.; BEETSON, T.; AND BOOTH, T.

Preliminary results of field trials with Australian native tree species on salt-affected land in NSW and Queensland

In: Third Australian Forest Soils and Nutrition Conference, "Productivity in Perspective", 7-11 October 1991, Melbourne. Forestry Commission of NSW, Sydney,

Publication type:	G	DataType:	GEN - Project description
Stand Type:	PL		

Keywords:

establishment techniques; fertiliser - application or requirement; mulching; New South Wales; Queensland; saline site; salinity comparison; Silviculture; species/provenance comparison within silv. trial; tree guard

Data measured:

DATA - crown spread, insect damage, health, soil salt concentration, pH, water table depth, nutrient status; diameter; height; survival

342

MARKS, G. C.; INCOLL, W. D.; AND LONG, I. R. 1986.

Effects of crown development, branch shed and competition on wood defect in Eucalyptus regnans and E. sieberi

Australian Forest Research 16: 117-129

Publication type:	E & W	DataType:	GD
Stand Type:	NF PL		

Keywords:

Acacia; Acacia verniciflua; Eucalyptus regnans; Eucalyptus sieberi; Silviculture; site comparison (within experiment); spacing; tree competition; Victoria; wood defects; wood properties

Data measured:

basal area; DATA - branch diameter (dead and live), frequency of defect-free stub occlusion, type and amount of defect, crown depth, clear stem length; predominant height / mean dominant height

343

MARKS, G. C.; KASSABY, F. Y.; AND FAGG, P. C. 1973.

Die-back tolerance in Eucalypt species in relation to fertilization and soil populations of *Phytophthora cinnamomi**Australian Journal of Botany* 21(1): 53-65

Publication type:	E	DataType:	GD
Stand Type:	NURS		
	PL		

Keywords:

dieback; establishment techniques; *Eucalyptus bicostata*; *Eucalyptus botryoides*; *Eucalyptus camaldulensis*; *Eucalyptus cladocalyx*; *Eucalyptus crenulata*; *Eucalyptus cypellocarpa*; *Eucalyptus delegatensis*; *Eucalyptus globoidea*; *Eucalyptus globulus*; *Eucalyptus maculata*; *Eucalyptus nitens*; *Eucalyptus obliqua*; *Eucalyptus pilularis*; *Eucalyptus regnans*; *Eucalyptus sieberi*; *Eucalyptus viminalis*; fencing; fertiliser - application or requirement; fertilisers - nitrogen - phosphorus - potassium; fungal disease; gymnosperm; pathogen; *Phytophthora cinnamomi*; *Pinus*; *Pinus elliottii*; *Pinus radiata*; Silviculture; species/provenance comparison within silv. trial; Victoria; waterlogging

Data measured:

DATA - population density indices (PDI) of *P. cinnamomi*, soil moisture and temperature, dry weight of new green shoots, sapling health observations; diameter; height; survival

344

MAY, F. J.; PEDERICK, L. A.; AND CRAIG, F. G. 1975.

Fertilizer responses in *Eucalyptus nitens* at Powelltown*Forestry Commission Victoria, Technical Paper* 22: 11-14

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

application method; application rate; economics; establishment techniques; *Eucalyptus nitens*; fertiliser - application or requirement; fertiliser - manure, animal products, bonemeal; Magamp; Silviculture; Victoria

Data measured:

dbh; height; survival; volume

345

MAZANEC, R. A. 1994.

Provenance trials of four exotic eucalypts in bauxite mines in Western

In: O'Connell, K. A. and Barrett, D. R. (eds.) Revegetation of mine sites using appropriate species, 3rd International Conference on Environmental Issues and Waste Management in Energy and Mineral Production, 29 August - 1 September 1994 at Burswood Resort Convention Centre, pp. 37-46, Curtin University of Technology

Publication type: E **DataType:** GD
Stand Type: PL - MINE

Keywords:

Eucalyptus henryi; Eucalyptus maculata; Eucalyptus pilularis; Eucalyptus resinifera;
 Eucalyptus saligna; provenance trial (only); site comparison (within experiment);
 Species/provenance/clone/family trial (only); Western Australia

Data measured:

DATA - Calculated heritability; diameter; height; survival

346

MAZANEC, R. A. 1999.

Thirteen year results from a spotted gum provenance trial in the Wellington catchment of Western Australia

Australian Forestry 62(4): 315-319

Publication type: E **DataType:** GD
Stand Type: PL

Keywords:

Corymbia; Corymbia henryi; Corymbia maculata; Corymbia variegata; parrot; plantation
 pests; Species/provenance/clone/family trial (only); vertebrate pests; Western Australia

Data measured:

DATA - MAI (volume), percentage single stemmed trees, mean straightness, mean
 persistent branches (greater than 2.5 cm diam.), percent trees and severity of parrot damage;
 dbh; height; survival

347

MCGRATH, J. F. 1979.

Initial fertiliser requirements of exotic eucalypts on the Donnybrook Sunkland*Research Paper, Forests Department, Western Australia No. 53, 6 pp.*

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

Agras; application rate; Boost Crop; establishment techniques; Eucalyptus cypellocarpa; Eucalyptus globulus; Eucalyptus microcorys; Eucalyptus oreades; Eucalyptus resinifera; fertiliser - application or requirement; fertilisers - nitrogen - phosphorus - potassium; sand; Silviculture; species/provenance comparison within silv. trial; Vigran; Western Australia

Data measured:

height; survival

348

MCGRATH, J. F. 1999.

Silviculture management options for E. globulus plantations

In: Balancing productivity and drought risk in blue gum plantations, A plantations management workshop - Jointly presented by Bunnings Tree Farms, Department of Conservation and Land Management, CSIRO Forestry and Forest Products, and Timbercorp Eucalypts Limited, Karri Valley Resort, Pemberton WA, November 9-10, 1999, pp. 23-25

Publication type: G DataType: GD
 GEN - Review, discussion or brief article
 Stand Type: PL

Keywords:

drought; Eucalyptus globulus; fertiliser - application or requirement; fertilisers - nitrogen; Pinus; Pinus radiata; REVIEW; Silviculture; site comparison (across experiments); spacing; thinning; water stress; Western Australia

Data measured:

basal area; DATA - pre-dawn and seasonal leaf water potential, volume increment

349

MCINTYRE, D. K. AND PRYOR, L. D. 1974.

Response of flooded gum in plantations to fertilisers*Australian Forestry 37(1): 15-23*

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

ammonium phosphate; application rate; establishment techniques; Eucalyptus grandis; fertiliser - application or requirement; fertilisers - phosphorus; fertilisers - urea; New South Wales; phosphorus nitrogen ratio; planting date; Silviculture; superphosphate

Data measured:

DATA - soil total N and P; height

350

MCKIMM, R. J. 1975.

The growth of trees under intensive culture in northern Victoria*Forestry Commission Victoria, Technical Paper 23: 7-10*

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

Acacia; Acacia saligna; Acer pseudo-platanus; bare rooted stock; Casuarina cunninghamiana; container grown plants; cuttings; Eucalyptus astringens; Eucalyptus behriana; Eucalyptus botryoides; Eucalyptus camaldulensis; Eucalyptus campaspe; Eucalyptus citriodora; Eucalyptus cladocalyx; Eucalyptus cornuta; Eucalyptus crenulata; Eucalyptus cypellocarpa; Eucalyptus delegatensis; Eucalyptus globulus; Eucalyptus gomphocephala; Eucalyptus grandis; Eucalyptus kondininensis; Eucalyptus leucoxylon; Eucalyptus maculata; Eucalyptus microcorys; Eucalyptus nitens; Eucalyptus numerosa; Eucalyptus obliqua; Eucalyptus occidentalis; Eucalyptus regnans; Eucalyptus rubida; Eucalyptus saligna; Eucalyptus salubris; Eucalyptus sieberi; Eucalyptus viminalis; irrigation; irrigation - fresh water; Melaleuca armillaris; Pinus radiata; planting stock; Populus; Populus deltoides; Populus euramaricana I - 488; Salix vitellina; Silviculture; site comparison (within experiment); soil type; species/provenance comparison within silv. trial; Tamarix aphylla; Victoria; Virgilia capensis

Data measured:

height; survival

351

MCKIMM, R. J. 1984.

Fence posts from young trees irrigated with sewage effluent*Australian Forestry 47(3): 172-178*

Publication type: W DataType:
 Stand Type:

Keywords:

Casuarina cunninghamiana; Eucalyptus botryoides; Eucalyptus grandis; irrigation; irrigation - effluent; products; sewage effluent; Victoria; wood density; wood properties

Data measured:

DATA - wood treatability (four methods), basic density, sapwood/heartwood ratio, strength, penetration and retention of preservative

352

MCKIMM, R. J. AND FLINN, D. W. 1979.

Eucalypt species, site preparation and fertiliser requirements for reforestation of the Toorongo Plateau in central Victoria*Australian Forestry* 42(2): 117-124

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

application rate; Confos; cultivation; establishment techniques; *Eucalyptus delegatensis*; *Eucalyptus globulus* subsp. *bicostata*; *Eucalyptus nitens*; *Eucalyptus regnans*; fencing; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - nitrogen - phosphorus - potassium; fertilisers - urea; ripping; Silviculture; site comparison (within experiment); site preparation; species/provenance comparison within silv. trial; trace elements; Victoria

Data measured:

dbh; height; survival

353

MCKIMM, R. J.; WAUGH, G.; AND NORTHWAY, R. L. 1988.

Utilisation potential of plantation-grown *Eucalyptus nitens**Australian Forestry* 51(1): 63-71

Publication type: E & W DataType: GD
 Stand Type: PL

Keywords:

Eucalyptus nitens; Silviculture; thinning; Victoria; wood - grading; wood density; wood properties

Data measured:

DATA - volume MAI, wood properties: peripheral longitudinal strain, average sapwood bark thickness, volume under bark, wood volume, basic density, moisture content, twist, spring, bow, rate of drying, strength, wood grading; dbh; predominant height / mean dominant height; volume

354

MEASKI, B; WATERS, M.; AND BIRD, R. 1998.

Results from spotted gum provenance and ripping trials in south west Victoria

Agroforestry News 7(2): 18-19

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Corymbia henryi; Corymbia maculata; equipment; establishment techniques; Eucalyptus cypellocarpa; Eucalyptus saligna; Eucalyptus viminalis; provenance trial (only); ripping; Silviculture; site preparation; species/provenance comparison within silv. trial; Species/provenance/clone/family trial (only); Tractor; Victoria; winged ripper

Data measured:

diameter; height

355

MEDHURST, J. L. AND BEADLE, C. 2000.

Thinning for solid wood products in Eucalyptus nitens plantations

In: The future of eucalypts for wood products, Proceedings of IUFRO conference 19-24 March 2000, Launceston, Tasmania, Australia, pp 343-348

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Eucalyptus nitens; sawlogs; Silviculture; site comparison (within experiment); Tasmania; thinning

Data measured:

DATA - leaf area and nitrogen amount and distribution in crown, photosynthetic activity; dbh

356

MEDHURST, J. L. AND BEADLE, C. L. 2001.

Growth in response to early-age and later-age thinning in Eucalyptus nitens (Deane and Maiden) Maiden plantations

Canadian Journal of Forest Research 31: 187-197

Publication type:	E	DataType:	
Stand Type:	PL		

Keywords:

Eucalyptus nitens; later-age thinning; Tasmania; thinning

357

MEDHURST, J. L. AND BEADLE, C. L. PRESS.

Crown structure and leaf area index development in thinned and unthinned Eucalyptus nitens plantations*Tree Physiology*

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

crown structure; Eucalyptus nitens; Tasmania; thinning

Data measured:

leaf area

358

MEDHURST, J. L.; PINKARD, L.; MOLLON, A.; AND BEADLE, C. 1999.

Changes in productivity in response to thinning and pruning in Eucalyptus plantations (Abstract)

In: Ellis, R. C. and Smethurst, P. J. (eds.) Practising forestry today. Proceedings of the Institute of Foresters of Australia 18th Biennial Conference 3-8 October 1999 in Hobart, Tasmania, p. 185

Publication type: G DataType: GEN - Review, discussion or brief article
 Stand Type: PL

Keywords:

Eucalyptus nitens; pruning; Silviculture; Tasmania; thinning

359

MENDHAM, N.; BAKER, S.; DINGLE, J.; SMETHURST, P.; BEADLE, C.; NEILSEN, W.;
 BORGER, J.; ADAMS, P.; HOLZ, G.; BARNES, C.; HETHERINGTON, S.; NAUGHTON, P.;

Impact of competition from weeds on early growth of eucalypts and pines at five sites in Tasmania and Victoria

In: Ellis, R. C. and Smethurst, P. J. (eds.) Practising forestry today. Proceedings of the Institute of Foresters of Australia 18th Biennial Conference 3-8 October 1999 in Hobart, Tasmania, pp.

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

altitude; application method; establishment techniques; Eucalyptus globulus; Eucalyptus nitens; glyphosate; gymnosperm; herbicide; Pinus; Pinus radiata; Silviculture; site comparison (within experiment); soil type; species/provenance comparison within silv. trial; Tasmania; Victoria; weed control

Data measured:

diameter

360

MESSINA, M. G. 1992.

Response of *Eucalyptus regnans* F. Muell. to thinning and urea fertilization in New Zealand*Forest Ecology and Management* 51: 269-283

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Eucalyptus regnans; fertiliser - application or requirement; fertilisers - urea; foliar analysis; later age fertiliser; New Zealand; nutrition - cycling or requirements or analysis; Silviculture; thinning

Data measured:

basal area; DATA - crown height, foliar analysis N, P, K, Ca, and Mg; dbh; height; volume

361

METCALF, G. O. 1985.

Treelot trials in western New South Wales*Journal of Soil Conservation, New South Wales* 41(2): 52-61

Publication type:	E	DataType:	GD
Stand Type:	demonstration/routine management plot PL		

Keywords:

agroforestry; drought tolerance; erosion; *Eucalyptus astringens*; *Eucalyptus brevifolia*; *Eucalyptus burdettiana*; *Eucalyptus campaspe*; *Eucalyptus cooperana*; *Eucalyptus dawsonii*; *Eucalyptus dundasii*; *Eucalyptus eremophila*; *Eucalyptus erythronema*; *Eucalyptus gillii*; *Eucalyptus gracilis*; *Eucalyptus kondininensis*; *Eucalyptus melliodora*; *Eucalyptus occidentalis*; *Eucalyptus salmonophloia*; *Eucalyptus salubris*; *Eucalyptus sargentii*; *Eucalyptus sideroxylon*; *Eucalyptus stricklandii*; *Eucalyptus viridis*; land degradation; low rainfall site; New South Wales; site comparison (within experiment); Species trial (only); Species/provenance/clone/family trial (only); wide-spaced trees; windbreak

Data measured:

DATA - periodic annual increment, CAI, tree form; height; survival

362

MILGATE, A. W.; YUAN, Z. Q.; VAILLANCOURT, R. E.; AND MOHAMMED, C. 2001.

Mycosphaerella species occurring on Eucalyptus globulus and E. nitens plantations of Tasmania, Australia*Forest Pathology* 31: 53-63

Publication type: B DataType:

Stand Type:

Keywords:

Eucalyptus globulus; Eucalyptus nitens; fungal disease; fungal diseases - general list; Mycosphaerella; pathogen; plantation pests; Tasmania

Data measured:

DATA - percentage of sites where species/anamorphs found; (measured but not reported: percentage of tree's leaf surface area necrotic per tree)

363

MILTHORPE, P. L.; BROOKER, M. I. H.; SLEE, A.; AND NICOL, H. I. 1998.

Optimum planting densities for the production of eucalyptus oil from blue mallee (Eucalyptus polybractea) and oil mallee (E.kochii)*Industrial Crops and Products* 8: 219-227

Publication type: E DataType: GD

Stand Type: PL

Keywords:

blue mallee; Eucalyptus kochii; Eucalyptus polybractea; foliar analysis; New South Wales; oil mallee; oil production; plant analysis; Silviculture; spacing; species/provenance comparison within silv. trial; stand density

Data measured:

DATA - biomass (total dry matter), oil concentration and oil composition; height; survival

364

MILTHORPE, P. L.; HILLAN, J. M.; AND NICOL, H. I. 1994.

The effect of time of harvest, fertilizer and irrigation on dry matter and oil production of blue mallee*Industrial Crops and Products* 3(3): 165-173

Publication type: E DataType: GD

Stand Type: PL

Keywords:

biomass production; blue mallee; cutting management; Eucalyptus polybractea; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; harvest timing; irrigation; irrigation - fresh water; irrigation - rainfed treatment; low rainfall site; New South Wales; oil content; oil production; plant composition; provenance trial (only); Silviculture; species/provenance comparison within silv. trial

Data measured:

biomass; DATA - oil content, oil volume, dry matter yeild; height; survival

365

MINKO, G. 1977.

Fertilising one year old, second-rotation *Pinus radiata* on steep slopes of the Ovens Plantation

Forestry Commission Victoria, Technical Paper 26: 37-40

Publication type: E DataType:
Stand Type: PL

Keywords:

establishment techniques; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; gymnosperm; *Pinus*; *Pinus radiata*; second rotation; Silviculture; site comparison (within experiment); steep rocky site; sulfate of ammonia; superphosphate; Victoria

Data measured:

DATA - response surface; diameter; height

366

MINKO, G. AND FAGG, P. C. 1989.

Control of some mistletoe species on eucalypts by trunk injection with herbicides

Australian Forestry 52(2): 94-102

Publication type: E DataType:
Stand Type:

Keywords:

Amyema; application date; application rate; clopyralid; damage (biotic agents, harvesting); *Eucalyptus bridgesiana*; *Eucalyptus camaldulensis*; *Eucalyptus dives*; *Eucalyptus globulus* subsp. *bicostata*; *Eucalyptus goniocalyx*; *Eucalyptus macrorhyncha*; *Eucalyptus melliodora*; *Eucalyptus ovata*; *Eucalyptus polyanthemus*; *Eucalyptus radiata* ssp. *radiata*; *Eucalyptus sideroxylon*; Garlon; glyphosate; herbicide; hexazinone; host preference; Lontrel L; mistletoe control; organophosphorus herbicides; parasitic weeds; phytotoxic effect; plantation pests; Roundup; stem injection; tree injection; triclopyr; Velpar; Victoria

Data measured:

survival

367

MISRA, R. K.; TURNBULL, C. R. A.; CROMER, R. N.; GIBBONS, A. K., AND LASALA, A. V. 1998.

Below- and above-ground growth of *Eucalyptus nitens* in a young plantation. I. Biomass

Forest Ecology and Management 106: 283-293

Publication type:	P	DataType:
Stand Type:	PL	

Keywords:

ammonium fertilisers; ammonium sulphate; biomass - above-ground; biomass - below-ground; *Eucalyptus nitens*; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; root systems; Silviculture; Tasmania; triple

Data measured:

biomass; biomass - root; DATA - stem, branch and leaves dry weight; root dry weight (3 diameter classes), root density and biomass wrt location from tree; dbh; diameter; height

368

MISRA, R. K.; TURNBULL, C. R. A.; CROMER, R. N.; GIBBONS, A. K.; LASALA, A. V.; AND BALLARD, L. M. 1998.

Below- and above-ground growth of *Eucalyptus nitens* in a young plantation. II. Nitrogen and phosphorus

Forest Ecology and Management 106: 295-306

Publication type:	P	DataType:
Stand Type:	PL	

Keywords:

ammonium fertilisers; ammonium sulphate; biomass - above-ground; biomass - below-ground; establishment techniques; *Eucalyptus nitens*; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; foliar analysis; plant analysis; plant composition; root systems; Silviculture; Tasmania; triple superphosphate

Data measured:

biomass; biomass - root; DATA - dry weight, N and P concentration in leaves, stem, branch and roots, biomass of roots (3 diameter classes), spatial variation in root nutrient concentration; dbh; diameter; height

369

MITCHELL, A. L. 1971.

Planting trials with red cedar

Australian Forestry 35(1): 8-16

Publication type: E DataType: GD
Stand Type: NF

Keywords:

Hypsipyla robusta; New South Wales; rainforest tree species (native); red cedar; tip moth; Toona ciliata; underplanting

Data measured:

survival

370

MO, J.; TANTON, M. T.; AND BYGRAVE, F. L. 1997.

Temporal and inter-tree variations of attack by *Hypsipyla robusta* Moore (Lepidoptera: Pyralidae) in Australian red cedar (*Toona australis* (F. Muell.) Harms)

Forest Ecology and Management 96(1/2): 139-146

Publication type: A DataType: GD
Stand Type: PL

Keywords:

Flindersia; Flindersia australis; Gmelina; Gmelina leichardtii; Grevillea robusta; Hypsipyla robusta; insect monitoring; insect pests; mixed species; New South Wales; pest monitoring; plantation pests; rainforest tree species (native); red cedar; tip moth; Toona ciliata

Data measured:

DATA - number of shoots with fully expanded leaves, percent and frequency attacked shoots and trees, rainfall and temperature indices; dbh; height; tree form

371

MO, J.; TANTON, M. T.; AND BYGRAVE, F. L. 1997.

Within-tree distribution of attack by *Hypsipyla robusta* Moore (Lepidoptera: Pyralidae) in Australian red cedar (*Toona australis* (F. Muell.) Harmes)*Forest Ecology and Management* 96(1/2): 147-154

Publication type:	A	DataType:
Stand Type:	NURS	
	PL	

Keywords:

Flindersia; Flindersia australis; Gmelina; Gmelina leichardtii; Grevillea robusta; Hypsipyla robusta; insect monitoring; insect pests; mixed species; New South Wales; pest monitoring; plantation pests; rainforest tree species (native); red cedar; tip moth; Toona ciliata

Data measured:

DATA - shoot height above ground, length and basal diameter, percent attacked shoots, tissue type and location of larval feeding in nursery trees

372

MOHAMMED, C.; BARRY, K.; BATTAGLIA, M.; BEADLE, C.; EYLES, A.; MOLLON, A.; AND PINKARD, E. 2000.

Pruning-associated stem defects in plantation *E. nitens* and *E. globulus* grown for sawlog and veneer in Tasmania, Australia

In: The future of eucalypts for wood products, Proceedings of IUFRO conference 19-24 March 2000, Launceston, Tasmania, Australia, pp. 357-364

Publication type:	E	DataType:
Stand Type:	PL	

Keywords:

application method; application timing; decay; equipment; Eucalyptus globulus; Eucalyptus nitens; pruning; pruning method; sawlogs; Silviculture; site comparison (within experiment); Tasmania; wood properties

Data measured:

DATA - diameter of pruned branch stub, presence and length of decay columns, felled trees: decay or discolouration in main stem, pH, moisture, mineral, and total phenol content

373

MOHAMMED, C.; HALL, M.; BARRY, K.; BATTAGLIA, M.; BEADLE, C.; EYLES, A.; MOLLON, A.; AND PINKARD, E. A. 2000.

Pruning-associated stem defects in plantation *E. nitens* and *E. globulus* grown for sawlog and veneer in Tasmania, Australia

In: Cooperative Research Centre for Sustainable Production Forestry Pruning and thinning workshop (Collated handouts), held at Queensland Forestry Research Institute, Gympie 3-5 May 2000

Publication type: G DataType: GD
Stand Type: PL

Keywords:

equipment; Eucalyptus globulus; Eucalyptus nitens; fungicide; pruning; pruning method; Silviculture; Tasmania; wood properties

Data measured:

DATA - mean number of decayed branch stubs, branch diameter, mm decay length, probability of fungal outbreak; dbh; height

374

MONTAGUE, T. L.; CAMERON, J. N.; APPLETON, R.; AND KRYGSMAN, M. 1989.

Variation between Eucalypt species with respect to browsing damage

National Afforestation Program, Technical Report 89/2 (Project 50)

Publication type: E DataType:
Stand Type:

Keywords:

mammal browsing; plantation pests; vertebrate pests

375

MONTAGUE, T. L.; POLLOCK, D. C.; AND WRIGHT, W. 1990.

An examination of the browsing animal problem in Australian eucalypt and pine plantations*In: Proceedings of the Fourteenth Vertebrate Pest Conference, Red Lion Inn, Sacramento, California, March 6-8 1990*

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

browsing; D-ter; Dynamic Lifter; Eucalyptus globulus; Eucalyptus nitens; Eucalyptus regnans; fauna survey; fencing; foliage damage; hare; kangaroo; Laboratory or pen trial; livestock; mammal browsing; palatability; pest control; Pinus radiata; plantation pests; rabbit; repellents; repellents - a variety of; Rotonet; sheep; Silviculture; site comparison (across experiments); species comparison (general); species/provenance comparison within silv. trial; Tasmania; tree guard; vertebrate control; vertebrate pests; Vexar stocking mesh; Vexar tubing; wallaby

Data measured:

DATA - field: scats, footprints, actual fauna sightings, type of damage; field and pen trials: browsing score, survival; survival

376

MOORE, J. 1999.

The tolerance of direct seeded native species to herbicides*In: Twelfth Australian Weeds Conference "Weed management into the 21st century: Do we know where we're going?", Wrest Point Convention Centre, Hobart, Tasmania, 12-16 September 1999, Tasmanian Weed Society, Devonport, Tasmania, pp. 529-534*

Publication type: B DataType: GEN - Experiment design
 Stand Type: DS
 NURS

Keywords:

2,2-DPA; 2,4-D Amine; 2,4-DB; Acacia; Actinostrobus arenarius; Agonus; Agripon; Allocasuarina huegeliana; Ally; Atrazine; Banksia media; Basta; Beaufortia sparsa; Bladex; Bossiaea linophylla; Broadstrike; Brodal; Bromoxypil; Callistemon; Callistemon phonicus; Calothamus quadrifidus; chlorsulfuron; chlorthal; clopyralid; Cyanazine; Dacthal /W 75; Devrinol; Diclofop; Diflufenican; Diquat; Diuron; Dryandra formosa; Dual; Eclipse; Fenoxaprop; Fluazifop; Flumetsulam; Fluroxypyr; Glean; Glufosinate; glyphosate; Goal; Hakea; haloxyfop-methyl; herbicide; Imazethapyr; Kunzea; Lexone; Linuron; Logran; Lontrel L; MCPA (post emergent herbicide); Methabenzthiaz; Metolachlor; Metosulam; Metribuzin; Metsulfuron; napropamide; Oryzalin; Oust; Oxyfluorfen; Paraquat; post-plant herbicide application; pre-plant herbicide application; Propachlor; Propyzamide; Prothal; Pyridate; Ramrod; sethoxydim; Shamrox; simazine; Spinnaker; Sulfometuron; Surflan; Terbutryn; Tralkoxydim; Triasulfuron; trifluralin; understorey sampling; Western Australia

Data measured:

DATA - herbicide tolerance rating

377

MOORE, R. 1998.

Eucalypt and pine agroforestry: Notes for tour by Farm Forestry Roundtable, 19 November 1998

Department of Conservation and Land Management, Western Australia

Publication type: E & W DataType: GD
Stand Type: PL

Keywords:

agroforestry; alley belt (timberbelt); economics; Eucalyptus accedens; Eucalyptus saligna; gymnosperm; Pinus pinaster; Pinus radiata; species/provenance comparison within silv. trial; Western Australia; wide-spaced trees; wood properties

Data measured:

DATA - pruned height; diameter; height; volume

378

MOORE, R. 1999.

Eucalypts for sawlogs: Notes for Busselton District Field Day 4 September

Department of Conservation and Land Management, Western Australia

Publication type: E DataType:
Stand Type: PL

Keywords:

agroforestry; Eucalyptus diversifolia; Eucalyptus globulus; Eucalyptus maculata; Eucalyptus muelleriana; Eucalyptus oreades; Eucalyptus paniculata; sawlogs; species/provenance comparison within silv. trial; Western Australia; wide-spaced trees

379

MOORE, R. W.; SIEMON, G. R.; ECKERSLEY, P.; AND HINGSTON, R. A. 1996.

Sawlogs from 13 year old Eucalyptus globulus - management, recovery and economics

In: Farm forestry and plantations: investing in future wood supply, Mount Gambier, South Australia, Australian Forest Growers Conference, 9-12 September, 1996, 219-231

Publication type: E & W DataType:
Stand Type: PL

Keywords:

economics; Eucalyptus globulus; grazing; pasture; products; sand; sawlogs; Silviculture; thinning; Western Australia; wood density; wood properties

Data measured:

DATA - felled trees: length, mid-log diameter, bark thickness; green, basic and air-dry density, shrinkage, grading, actual merchantable volume; dbh; height; volume

380

MORAN, G. F.; FORRESTER, R. I.; AND ROUT, A. F. 1990.

Early growth of Eucalyptus delegatensis provenances in four field trials in south-eastern Australia*New Zealand Journal of Forestry Science* 20(2): 148-61

Publication type: E DataType:
Stand Type:

Keywords:

Eucalyptus delegatensis; New South Wales; provenance trial (only); Victoria

Data measured:

growth data

381

MORONI, M.; WORLEDGE, D.; AND BEADLE, C. 1999.

Root distribution of E. nitens and E. globulus in irrigated and droughted soil*CRC for Sustainable Production Forestry, Technical report No. 25, 22 pp.*

Publication type: P DataType:
Stand Type: PL

Keywords:

Eucalyptus globulus; Eucalyptus nitens; irrigation; root systems; Tasmania

382

MORRIS, J. D. 1984.

Establishment of trees and shrubs on a saline site using drip irrigation*Australian Forestry* 47(4): 210-217

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Acacia; Acacia floribunda; Acacia saligna; Callistemon; Callistemon salignus; Casuarina cristata; Casuarina cunninghamiana; Eucalyptus astringens; Eucalyptus botryoides; Eucalyptus brockwayi; Eucalyptus camaldulensis; Eucalyptus cladocalyx; Eucalyptus cladocalyx var. nana; Eucalyptus dundasii; Eucalyptus griffithsii; Eucalyptus incrassata; Eucalyptus largiflorens; Eucalyptus leucoxylon; Eucalyptus occidentalis; Eucalyptus spathulata; Eucalyptus urnigera; foliar analysis; irrigation; irrigation - fresh water; Leptospermum lanigerum; low rainfall site; Melaleuca armillaris; Melaleuca lanceolata; nutrition - cycling or requirements or analysis; saline site; salinity comparison; soil analysis; Species trial (only); Tamarix articulata; Victoria

Data measured:

DATA - Chloride content of mature foliage from outer crown, groundwater depth and salinity, surface soil salinity (twice yearly; conductivity), soil samples at 5-200 cm depth: conductivity, soluble and exchangeable ions Cl, Na, K, Ca, Mg; height; survival

383

MORRIS, J. D. 1991.

Water tables and soil salinity beneath tree plantations in groundwater discharge areas

In: Ryan, P. J. (ed.) Third Australian Forest Soils and Nutrition Conference, "Productivity in Perspective", 7-11 October 1991, Melbourne, Forestry Commission of NSW, pp. 82-83

Publication type: G DataType:
Stand Type: PL

Keywords:

alley belt (timberbelt); Eucalyptus camaldulensis; groundwater level; groundwater table; land degradation; plant water relations; saline site; Victoria; water use

Data measured:

DATA - rainfall, watertable depth, soil salinity, soil moisture tension

384

MORRIS, J. D. 1995.

Clonal red gums for Victorian planting

Trees and Natural Resources (March 1995): 26-28

Publication type: E DataType: GD
GEN - Project description
Stand Type: PL

Keywords:

clones; Eucalyptus camaldulensis; extension article; genotype; irrigation; irrigation - rainfed treatment; saline site; site comparison (within experiment);
Species/provenance/clone/family trial (only); tree breeding; Victoria

Data measured:

height; survival

385

MORRIS, J. D. 1997.

Salt accumulation beneath plantations using saline groundwater: lessons from the Kyabram plantation study

In: Workshop on groundwater uptake and salt accumulation by trees over shallow watertables, Joint Venture Agroforestry Program, Melbourne, May 1997

Publication type: G DataType:
Stand Type: PL

Keywords:

groundwater table; saline site; Victoria

386

MORRIS, J. D. AND COLLOPY, J. J. 1999.

Water use and salt accumulation by *Eucalyptus camaldulensis* and *Casuarina cunninghamiana* on a site with shallow saline groundwater*Agricultural Water Management* 39(2-3): 205-227

Publication type:	P	DataType:	GD
Stand Type:	PL		

Keywords:

agroforestry; *Casuarina cunninghamiana*; *Casuarina glauca*; *Eucalyptus camaldulensis*; *Eucalyptus occidentalis*; groundwater level; irrigation; irrigation - fresh water; irrigation - rainfed treatment; mixed species; MODEL; physiology; plant water relations; saline site; sap flow; Species/provenance/clone/family trial (only); Victoria; water use

Data measured:

basal area; dbh

387

MORRIS, J.; MANN, L.; AND COLLOPY, J. 1998.

Transpiration and canopy conductance in a eucalypt plantation using shallow saline groundwater*Tree Physiology* 18: 547-555

Publication type:	P	DataType:	
Stand Type:	PL		

Keywords:

Eucalyptus camaldulensis; *Eucalyptus grandis*; irrigation; irrigation - fresh water; low rainfall site; physiology; plant water relations; saline site; spacing; transpiration; Victoria; water use

Data measured:

DATA - tree water use (sap flow in sapwood), stomatal conductance, leaf water potential, leaf area, number of leaves each branchlet, LAI, solar radiation, temperature, wind speed, leaf temperature, canopy conductance and mean vapour pressure deficit

388

MORRIS, J. D. AND WEHNER, B. A. 1987.

Daily and annual water use by four eucalypt species irrigated with wastewater at Robinvale

Forestry Commission Victoria, Research Report No. 329, September 1987, 31 pp.

Publication type: P DataType:
Stand Type: PL

Keywords:

Eucalyptus botryoides; Eucalyptus camaldulensis; Eucalyptus globulus; Eucalyptus grandis; irrigation; irrigation - effluent; MODEL; physiology; plant composition; plant water relations; sewage effluent; Species trial (only); transpiration; Victoria; water use

Data measured:

DATA - LAI, vapour pressure deficit, canopy conductance, air temperature, transpiration and conductance of single leaves, leaf area, number of leaves per branch in each crown stratum

389

MORTON, A. W. 1988.

The effects of high levels of soil salinity on the frost tolerance of four provenances of Eucalyptus camaldulensis Dehnh.

Honours thesis, Australian National University, Canberra

Publication type: E DataType:
Stand Type:

Keywords:

Eucalyptus camaldulensis; frost tolerance; provenance trial (only); salinity comparison

390

MUNERI, A. 2000.

Effects of thinning on wood properties of E. cloeziana: Results from a 46 yr old thinning experimental trial (HWD Expt 244)

In: Cooperative Research Centre for Sustainable Production Forestry Pruning and thinning workshop (Collated handouts), held at Queensland Forestry Research Institute, Gympie 3-5 May 2000,

Publication type: E & W DataType: GD
Stand Type: PL

Keywords:

Eucalyptus cloeziana; Queensland; Silviculture; thinning; wood properties

Data measured:

DATA - sapwood proportion, basic density; dbh; height

391

MURPHY, S.; POLAK SCOWCROFT, C.; AND COY, R. 1998.

Compendium of forest research in Victoria

Prepared by the Centre for Forest Tree Technology for the joint Commonwealth and Victorian Regional Forest Agreement (RFA) Steering Committee

Publication type:	D	DataType:
Stand Type:	NF	
	PL	

Keywords:

research directory

392

MYERS, B. J.; BENYON, R. G.; BOND, W. J.; FALKINER, R. A.; O'BRIEN, N. D.; POLGLASE, P. J.; SMITH, C. J.; SNOW, V. O.; AND THEIVEYANATHAN, S. THEIVEYANATHAN, S. 1998.

Water, salt, nutrients and growth in effluent irrigated plantations

WaterTECH Conference, Australian Water and Wastewater Association, held at Brisbane, Queensland. Publ: CSIRO

Publication type:	G	DataType:	GEN - Project description
Stand Type:	PL		

Keywords:

biomass production; Eucalyptus grandis; gymnosperm; irrigation; irrigation - bore water; irrigation - effluent; low rainfall site; New South Wales; Pinus; Pinus radiata; Silviculture; Species trial (only); species/provenance comparison within silv. trial; Species/provenance/clone/family trial (only); water use; wind damage

Data measured:

biomass; DATA - leaf area development, susceptibility to wind damage, frosts, pests and diseases, water balance, N balance, retention and movement of soil P, changes in soil chemistry; dbh; leaf area index (LAI); predominant height / mean dominant height; tree form; volume

393

MYERS, B. J.; BENYON, R. G.; THEIVEYANATHAN, S.; CRIDDLE, R. S.; SMITH, C. J.; AND FALKINER, R. A 1998.

Response of effluent-irrigated *Eucalyptus grandis* and *Pinus radiata* to salinity and vapor pressure deficits

Tree Physiology 18(8-9): 565-573

Publication type: P DataType:
Stand Type: PL

Keywords:

chloride; *Eucalyptus grandis*; foliar analysis; gymnosperm; irrigation; irrigation - effluent; irrigation - fresh water; irrigation - saline water; New South Wales; nutrition - cycling or requirements or analysis; physiology; *Pinus*; *Pinus radiata*; plant water relations; salinity comparison; salt tolerance; Silviculture; species/provenance comparison within silv. trial; transpiration; water stress; water use

Data measured:

DATA - soil water content and salinity, leaf water potential, metabolic heat rates, CO₂ production and sap flow rates, foliar analysis (Ca, Mg, K, Na, and Cl), leaf and needle extension rates, leaf area; calc tree water use, daily stand transpiration; dbh; vapour pressure

394

MYERS, B. J. AND POLGLASE, P. J. 1996.

Beneficial use of sewage effluent and biosolids in plantations - lessons for farm forestry

In: Farm forestry and plantations: investing in future wood supply, Mount Gambier, South Australia, Australian Forest Growers Conference, 9-12 September, 1996, pp.102-113

Publication type: E DataType: GD
GEN - Review, discussion or brief article
Stand Type: PL

Keywords:

fertiliser - application or requirement; fertilisers - magnesium; gymnosperm; irrigation; irrigation - effluent; New South Wales; nutrition - cycling or requirements or analysis; plant water relations; Silviculture; species/provenance comparison within silv. trial; water use; wind damage

Data measured:

basal area; biomass; DATA - CAI, LAI, foliage biomass, productivity/irrigation ratio, crown yellowing; height; predominant height / mean dominant height; survival; volume

395

MYERS, B. J. AND TALSMA, T. 1992.

Site water balance and tree water status in irrigated and fertilized stands of *Pinus radiata*

Forest Ecology and Management 52: 17-42

Publication type: P DataType:
Stand Type: PL

Keywords:

Australian Capital Territory; cold climate site; fertiliser - application or requirement; gymnosperm; irrigation; later age fertiliser; low rainfall site; physiology; *Pinus radiata*; plant water relations; Silviculture; water use

Data measured:

DATA - total precipitation, evaporation, throughfall, stemflow, soil water content, bulk density, soil temperature, pre-dawn needle water potential, diurnal course,; leaf water potential

396

MYERS, B. J.; THEIVEYANATHAN, S.; O' BRIEN, N. D.; AND BOND, W. J. 1996.

Growth and water use of *Eucalyptus grandis* and *Pinus radiata* plantations irrigated with effluent

Tree Physiology 16(1-2): 211-219

Publication type: E DataType: GD
Stand Type: PL

Keywords:

application rate; biomass - above-ground; biomass production; *Eucalyptus grandis*; gymnosperm; irrigation; irrigation - bore water; irrigation - effluent; low rainfall site; New South Wales; physiology; *Pinus*; *Pinus radiata*; plant composition; plant water relations; sewage effluent; Silviculture; species/provenance comparison within silv. trial; transpiration; water balance; water use

Data measured:

basal area; biomass; DATA - biomass (foliage, branches, stem, wood, and bark), LAI, leaf area, soil water content, water use; interception rates, cumulative drainage (CI mass balance method), transpiration (tree and pasture), soil evaporation; dbh; height; leaf area index (LAI); predominant height / mean dominant height; volume

397

NAMBIAR, E. K. S. 1990.

Interplay between nutrients, water, root growth and productivity in young plantations*Forest Ecology and Management* 30: 213-232

Publication type:	G	DataType:	GD GEN - Review, discussion or brief article
Stand Type:	PL		

Keywords:

biomass - above-ground; Eucalyptus camaldulensis; Eucalyptus globulus; gymnosperm; insect pests; insecticide; Pinus; Pinus ponderosa; Pinus radiata; REVIEW; root systems; Silviculture; South Australia; water use; weed competition; weed control

Data measured:

biomass; DATA - needle water potential, N mineralized, N uptake, biomass, N use efficiency, root length density, N flux, leaf area index, soil water; leaf area index (LAI)

398

NAMBIAR, E. K. S. AND BOOTH, T. H. 1991.

Environmental constraints on the productivity of eucalypts and pine: opportunities for site management and breeding

In: Ryan, P. J. (ed.) Third Australian Forest Soils and Nutrition Conference, "Productivity in Perspective", 7-11 October 1991, Melbourne, Forestry Commission of NSW, Sydney, pp. 215-231

Publication type:	G	DataType:	GD GEN - Review, discussion or brief article
Stand Type:	PL		

Keywords:

Eucalyptus delegatensis; Eucalyptus globulus; Eucalyptus nitens; fertiliser - application or requirement; fertilisers - nitrogen; herbicide; insecticide; New South Wales; nutrition - cycling or requirements or analysis; Pinus radiata; provenance trial (only); Queensland; REVIEW; site comparison (across experiments); site comparison (within experiment); South Australia; species comparison (general); Tasmania; tree breeding

Data measured:

basal area; biomass; DATA - biomass, nitrogen uptake, N flux, volume increment, needle water potential, stem volume; leaf area

399

NAMBIAR, E. K. S.; SQUIRE, R. O.; SANDS, R.; AND WILL, G. M. 1984.

Manipulation of water and nutrients in plantations of fast growing species*In: Gray, D. C.; Schonou, A. P. G.; and Schultz, C. J. (eds.) Site and productivity of fast growing plantations, Proceedings of the IUFRO Symposium, Pretoria, South Africa, pp. 489-506*

Publication type:	G	DataType:	GD GEN - Review, discussion or brief article general
Stand Type:	PL		

Keywords:

Araucaria; Araucaria cunninghamii; burning; cover crop; cover crop - legume; fertiliser - application or requirement; gymnosperm; nutrition - cycling or requirements or analysis; Pinus radiata; rainforest tree species (native); REVIEW; slash management; thinning; water stress

Data measured:

biomass

400

NEILSEN, W. A. (EDITOR) 1990.

Plantation handbook*Forestry Commission, Tasmania*

Publication type:	G	DataType:	GEN - Review, discussion or brief article
Stand Type:	PL		

Keywords:

establishment techniques; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; gymnosperm; Pinus radiata; plantation pests; Silviculture; site comparison (within experiment); site preparation; Tasmania; thinning; vertebrate pests; weed control

401

NEILSEN, W. A. 1996.

Response of Eucalyptus nitens and Eucalyptus regnans seedlings to application of various fertilisers at planting or soon after planting*New Zealand Journal of Forestry Science* 26(3): 355-369

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

container grown plants; establishment techniques; Eucalyptus nitens; Eucalyptus regnans; fertiliser - application or requirement; fertilisers - nitrogen - phosphorus - potassium; foliar analysis; insect pests; muriated potash; nutrition - cycling or requirements or analysis; open root; plant composition; plantation pests; planting stock; Silviculture; soil analysis; species/provenance comparison within silv. trial; superphosphate; Tasmania

Data measured:

DATA - stem form, branching, number of leaders and height to first fork, largest branch diameter, number of branches over 35 mm, foliar analysis upper crown (N, P, K), soil (texture, organic C, N, P, K, Ca); dbh; height; mean annual index (MAI); survival; volume

402

NEILSEN, W. A. AND BROWN, D. R. 1996.

Acacia melanoxylon plantations in Tasmania, Research and Development*Forests and Forest Industry Council, Forestry Tasmania*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Acacia; Acacia melanoxylon; blackwood; browsing; economics; establishment techniques; Eucalyptus delegatensis; Eucalyptus globulus; Eucalyptus nitens; Eucalyptus obliqua; Eucalyptus regnans; fencing; frost tolerance; gymnosperm; mixed species; nurse crop; pest control; Pinus; Pinus radiata; plantation pests; planting stock; provenance trial (only); pruning; seed treatment; Silviculture; site comparison (within experiment); spacing; species/provenance comparison within silv. trial; Tasmania; thinning; tree guard; vertebrate control; vertebrate pests; wide-spaced trees

Data measured:

DATA - environmental parameters for each provenance's origin, percentage multiple leaders and forks, severity of frosting and browsing, germination; dbh; height; survival; tree form; volume

403

NEILSEN, W. A. AND BROWN, D. R. 1996.

Blackwood plantation development in Tasmania

In: Proceedings of the Growing Australian Blackwood Acacia melanoxylon for timber workshop, 20-22 November, 1996, Lorne. School of Forestry and Resource Conservation, the University of Melbourne, Parkville, Victoria

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Acacia; Acacia melanoxylon; blackwood; establishment techniques; Eucalyptus delegatensis; Eucalyptus globulus; Eucalyptus nitens; Eucalyptus obliqua; Eucalyptus regnans; gymnosperm; mixed species; nurse crop; pest control; Pinus; Pinus radiata; plantation pests; provenance trial (only); seed treatment; Silviculture; Species trial (only); species/provenance comparison within silv. trial; Tasmania; tree guard; vertebrate pests

Data measured:

DATA - browsing percentage; height

404

NEILSEN, W. A. AND BROWN, D. R. 1997.

Growth and silviculture of Acacia melanoxylon plantations in Tasmania

Tasforests 9: 51-70

Publication type: E DataType: GD
Stand Type: NURS
PL

Keywords:

Acacia; Acacia melanoxylon; blackwood; browsing; container grown plants; establishment techniques; Eucalyptus delegatensis; Eucalyptus globulus; Eucalyptus nitens; Eucalyptus obliqua; Eucalyptus regnans; fencing; gymnosperm; mixed species; nurse crop; open root; pest control; Pinus; Pinus radiata; plantation pests; planting stock; provenance trial (only); pruning; seed treatment; Silviculture; spacing; species/provenance comparison within silv. trial; Tasmania; thinning; tree guard; vertebrate control

Data measured:

DATA - percentage seedling browsed, severity of frosting, germination percent; dbh; height; survival; volume

405

NEILSEN, W. A. AND GERRAND, A. M. 1999.

Growth and branching habit of *Eucalyptus nitens* at different spacing and the effect on final crop selection*Forest Ecology and Management* 123(2-3): 217-229

Publication type: E DataType: GD
 Stand Type: PL

Keywords:branch architecture; *Eucalyptus nitens*; Silviculture; spacing; stand design; Tasmania**Data measured:**

DATA - height to base of green crown, presence of forks and ramicorns, largest branch in lowest 6m stem, number of branches >35mm diameter, branch angle, stem form, stem straightness, canopy class, growth of select 300 sph; dbh; height; predominant height / mean dominant height; tree form; volume

406

NEILSEN, W. A.; KUBE, P. D.; AND ELLIOTT, H. J. 1998.

Prospects for commercial plantations of *Acacia melanoxylon* and *A. dealbata* in Tasmania*In: Recent developments in Acacia planting. Proceedings of an international workshop held in Hanoi, Vietnam, 27-30 October 1997, Eds. Turnbull, J. W.; Crompton, H. R.; and Pinyopusarek, K., Australian Centre for International Agricultural Research, Canberra, pp. 94-101*

Publication type: E DataType: GD
 Stand Type:

Keywords:Acacia; *Acacia dealbata*; *Acacia melanoxylon*; cold climate site; cold tolerance; *Eucalyptus globulus*; *Eucalyptus nitens*; fencing; frost tolerance; mixed species; nurse crop; *Pinus*; *Pinus radiata*; provenance trial (only); pruning; Silviculture; spacing; species/provenance comparison within silv. trial; Tasmania; thinning**Data measured:**

dbh; height; volume

407

NEILSEN, W. A. AND PATAKZEK, W. 1991.

Effect of simulated browsing on survival and growth of Eucalyptus nitens and E. regnans seedlings*Tasforests 3: 41-46*

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

application method; application timing; bare rooted stock; container grown plants; defoliation - artificial; Eucalyptus nitens; Eucalyptus regnans; fencing; fertiliser - application or requirement; mammal browsing; plantation pests; planting stock; Silviculture; species/provenance comparison within silv. trial; Tasmania; treatment repetition; vertebrate pests

Data measured:

height; survival; volume

408

NEILSEN, W. A. AND PINKARD, E. A. 2000.

Developing silvicultural regimes for sawlog and veneer production from temperate eucalypt plantations in Tasmania

In: Cooperative Research Centre for Sustainable Production Forestry Pruning and thinning workshop (Collated handouts), Queensland Forestry Research Institute, Gympie 3-5 May 2000

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

Eucalyptus nitens; Pinus; Pinus radiata; pruning; Silviculture; spacing; Tasmania; thinning

Data measured:

DATA - mean number of branches greater than 35 mm, volume and dbh of select best trees; volume

409

NEILSEN, W. A. AND PINKARD, E. A. 2000.

Developing silvicultural regimes for sawlog and veneer production from temperate eucalypt plantations in Tasmania*In: The future of eucalypts for wood products, Proceedings of IUFRO conference 19-24 March 2000, Launceston, Tasmania, Australia, pp. 335-342*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Eucalyptus globulus; Eucalyptus nitens; gymnosperm; Pinus; Pinus radiata; pruning; Silviculture; spacing; Tasmania; thinning

Data measured:

DATA - number of branches > 35mm; growth data; predominant height / mean dominant height; volume

410

NEILSEN, W. A. AND WILKINSON, G. R. 1990.

Eucalypt plantation silviculture: implications for sawlog production in*In: Dargavel, J. and Semple, N. (eds.) Prospects for Australian Forest Plantations, Centre for Resource and Environmental Studies, Australian National University, Canberra, pp. 209-223*

Publication type:	E	DataType:	GD
			GEN - Review, discussion or brief article
Stand Type:	PL		

Keywords:

altitude; economics; Eucalyptus globulus; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; gymnosperm; Pinus; Pinus radiata; REVIEW; Silviculture; site comparison (across experiments); site comparison (within experiment); species comparison (general); Tasmania

Data measured:

volume

411

NEITZEL, K. 2000.

Half-time for the Top End; Regional tropical hardwood forestry project*Agroforestry News* 9(3): 10-11

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

African mahogany; American mahogany; black bean; *Castanospermum australe*; *Cedrela*; *Chukrasia tabularis*; *Chukrasia velutina*; *Elaeocarpus grandis*; *Eucalyptus pellita*; extension article; irrigation; *Khaya senegalensis*; Northern Territory; provenance trial (only); *Pterocarpus indicus*; rainforest tree species (exotic); red cedar; silver quandong; Species trial (only); *Swietenia humilis*; teak; *Tectona grandis*; *Terminalia belerica*; *Toona ciliata*

Data measured:

height; survival

412

NEUMANN, F. G. AND COLLETT, N. G. 1992.

The impact of insect pests on young eucalypt plantings in the Shepparton irrigation region

A report to the Trees for Profit Research Board, by Forest Research & Development Branch, Department of Conservation and Natural Resources, Victoria, November 1992

Publication type: A DataType:
 Stand Type: PL

Keywords:

autumn gum moth; establishment techniques; *Eucalyptus botryoides*; *Eucalyptus bridgesiana*; *Eucalyptus brookeriana*; *Eucalyptus camaldulensis*; *Eucalyptus cypellocarpa*; *Eucalyptus dunnii*; *Eucalyptus elata*; *Eucalyptus globulus*; *Eucalyptus grandis*; *Eucalyptus macarthurii*; *Eucalyptus nitens*; *Eucalyptus pilularis*; *Eucalyptus saligna*; *Eucalyptus smithii*; *Eucalyptus viminalis*; fertiliser - application or requirement; foliage damage; herbicide; host preference; insect pests; leafblister sawfly; pest resistance; *Phylacteophaga eucalypti* Froggatt; plantation pests; Silviculture; species/provenance comparison within silv. trial; Species/provenance/clone/family trial (only); Victoria; weed control

Data measured:

DATA - damage score (upper and lower crown), insect pest species (autumn gum moth and leaf blister sawfly)

413

NEUMANN, F. G. AND COLLETT, N. G. 1998.

Insecticide trials for control of the steelblue sawfly (*Perga affinia affinis*), a primary defoliator in young commercial eucalyptus plantations of south-eastern Australia*Australian Forestry* 60(2): 75-83

Publication type:	A	DataType:
Stand Type:	PL	

Keywords:

application rate; carbaryl (insecticide); chemspray; chlorpyrifos; dimethoate; dipel; early larval instars; Eucalyptus camaldulensis; fenthion; host preference; insect mortality; insect pests; insecticide; irrigation; malathion; omethoate; Perga affinis affinis; pest control; plantation pests; pyrethrin; steelblue sawfly; Victoria

Data measured:

DATA - insect mortality per instar

414

NEUMANN, F. G. AND COLLETT, N. G. 1998.

Insecticide trials for control of the Autumn Gum Moth (*Mnesampela privata*), a primary defoliator in commercial eucalyptus plantations prior to canopy*Australian Forestry* 60(2): 130-137

Publication type:	A	DataType:
Stand Type:	PL	

Keywords:

application rate; autumn gum moth; carbaryl (insecticide); chemspray; chlorpyrifos; dimethoate; dipel; early larval instars; Eucalyptus globulus; fenthion; host preference; insect mortality; insect pests; insecticide; irrigation; malathion; Mnesampela; Mnesampela privata; omethoate; pest control; plantation pests; pyrethrin; Victoria

Data measured:

DATA - insect mortality per instar

415

NICHOLLS, E. C. 1987.

1986 Silvalite herbicide trial - Report on the testing of certain herbicides for use in farm tree establishment by planting*Forestry Commission of NSW*

Publication type:	E	DataType:
Stand Type:		

Keywords:

herbicide; New South Wales; weed control

416

NICHOLLS, J. W. P. AND PHILLIPS, F. H. 1970.

A preliminary study of coppice-grown *Eucalyptus viminalis* as a source of chip material

Div. For. Prod. Technological Pap. No. 58, CSIRO, Australia, 28 pp.

Publication type: B DataType: GD
Stand Type: NF

Keywords:

coppice; *Eucalyptus viminalis*; products; pulpwood production; Silviculture; wood fibre; wood properties; woodchip

417

NICHOLLS, T. 1992.

Tree establishment techniques on saline and waterlogged sites

Internal preliminary report (File EF20), Forestry Commission of NSW

Publication type: E DataType: GEN - Experiment design
Stand Type:

Keywords:

mulching; mulching - hay; mulching - plastic; New South Wales; saline site; tree guard; waterlogging

Data measured:

health; height

418

NICOLL, C. 1994.

A directory and bibliography of tree water use research

CSIRO Division of Water Resources, Irrigation systems and dryland salinity management program; CSIRO Mongraph

Publication type: D DataType:
Stand Type:

Keywords:

Northern Territory; research directory; South Australia; Tasmania; Victoria; water use; Western Australia

419

O'CONNELL, A. M. AND GROVE, T. S. 1999.

Eucalypt plantations in south-western Australia

In: Nambiar, E. K. S.; Cossalter, C.; and Tiarks, A. (eds.) Site management and productivity in tropical plantation forests: workshop proceedings, 16-20 February 1998, Pietermaritzburg, CIFOR, Bogor, Indonesia, pp. 53-59

Publication type: E DataType: GD
Stand Type: PL

Keywords:

biomass - above-ground; cover crop; cover crop - legume; establishment techniques; Eucalyptus globulus; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; fertilisers - urea; foliar analysis; nutrition - cycling or requirements or analysis; plant analysis; plant composition; sand; second rotation; Silviculture; site comparison (within experiment); slash management; slash residue; soil analysis; soil type; superphosphate; trace elements; Vicia sativa; Western Australia

Data measured:

DATA - soil analysis (moisture, temperature, pH, organic C, total N and P, extractable P), plant component analysis (N, P, Ca, dry weight); volume

420

O'CONNELL, A. M.; GROVE, T. S.; MENDHAM, D.; AND RANCE, S. J. 2000.

Effects of site management in Eucalypt plantations in south-western Australia

In: Nambiar, E. K. S.; Tiarks, A.; Cossalter, C.; and Ranger J. (eds.) Site management and productivity in tropical plantation forests, Proceedings of CIFOR conference, 7- 11 December 1999, Kerala, India, pp. 61-71

Publication type: E DataType: GD
Stand Type: PL

Keywords:

biomass - above-ground; cover crop; cover crop - legume; establishment techniques; Eucalyptus globulus; fertiliser - application or requirement; fertilisers - phosphorus; fertilisers - potassium; foliar analysis; nutrition - cycling or requirements or analysis; plant analysis; plant composition; sand; second rotation; site comparison (within experiment); slash management; slash residue; soil analysis; soil type; superphosphate; Vicia sativa; Western Australia

Data measured:

DATA - soil analysis (pH, organic C, labile C, total N and P, extractable P, Ca, Mg, K, mineral N, potential N mineralisation), leaf area index, plant component analysis (N, P, Ca, Mg, K, biomass); volume

421

OHMART, C. P.; THOMAS, J. R.; AND STEWART, L. G. 1984.

Differential defoliation by insects among provenances of *Eucalyptus delegatensis*

Journal of the Australian Entomological Society 23(2): 105-111

Publication type: E DataType:
Stand Type:

Keywords:

agricultural entomology; damage (biotic agents, harvesting); *Eucalyptus delegatensis*; foliage damage; insect pests; New South Wales; pest resistance; plantation pests; provenance trial (only); site comparison (within experiment); Tasmania; tree breeding

Data measured:

DATA - defoliation rate

422

OLD, K. M.; MURRAY, D. I. L.; KILE, G. A.; SIMPSON, J.; AND MALAFANT, K. W. J.

The pathology of fungi isolated from eucalypt cankers in south eastern

Australian Forest Research 16: 21-36

Publication type: E DataType:
Stand Type: NF
NURS
PL

Keywords:

Australian Capital Territory; *Cytospora eucalypticola*; *Endothia gyrosa*; *Eucalyptus delegatensis*; *Eucalyptus maculata*; fungal disease; inoculation; New South Wales; pathogen; plantation pests; Tasmania; Victoria

Data measured:

DATA - established trees: numbers of stem cankers, height, presence of branch stubs/insect damage, length and extent and year of initiation of kino veins (based on growth rings), isolation of fungi from cankers; pathogenicity to seedlings

423

ORME, K.; ORR, S.; GERRAND, A.; AND TODD, G. 1992.

Potential on low fertility sites for plantations in North-eastern Tasmania

Tasforests 4: 69-75

Publication type: E DataType: GD

Stand Type:

Keywords:

Acacia; Acacia dealbata; Acacia mearnsii; economics; establishment techniques; Eucalyptus amygdalima; Eucalyptus delegatensis; Eucalyptus fastigata; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus maidenii; Eucalyptus nitens; Eucalyptus nitida; Eucalyptus obliqua; Eucalyptus ovata; Eucalyptus pilularis; Eucalyptus pseudo-globulus; Eucalyptus regnans; Eucalyptus saligna; Eucalyptus sieberi; Eucalyptus smithii; Eucalyptus tenuiramis; Eucalyptus viminalis; fertiliser - application or requirement; fertilisers - nitrogen - phosphorus - potassium; gymnosperm; Pinus; Pinus pinaster; Pinus radiata; Silviculture; Species trial (only); species/provenance comparison within silv. trial; Tasmania

Data measured:

DATA - MAI; survival; volume

424

PALMBERG, C. 1975.

Geographic variation and early growth in south-eastern semi-arid Australia of Pinus halepensis Mill and the P. brutia Ten. species complex

Silvae Genetica 24: 150-160

Publication type: E DataType:

Stand Type:

Keywords:

low rainfall site; New South Wales; Pinus; Pinus brutia; Pinus eldarica; Pinus halepensis; Pinus pithyusa

425

PARSONS, M. J. 1993.

Coppicing of Eucalyptus polybractea cuttings following harvesting

Honours thesis, Australian National University, Canberra

Publication type: E DataType:

Stand Type:

Keywords:

coppice; cutting management; Eucalyptus polybractea

426

PARSONS, S.; STATHAM, M.; BROWN, D.; AND NEILSEN, W. A. 1997.

Studies of animal browsing problems in the establishment of eucalypt and blackwood plantations*Tasforests* 9: 163-165

Publication type: G DataType: GEN - Review, discussion or brief article
 Stand Type: PL

Keywords:

Acacia; Acacia melanoxylon; blackwood; browsing; establishment techniques; Eucalyptus nitens; Eucalyptus regnans; fauna survey; foliage damage; pest control; plantation pests; repellents; Silviculture; Tasmania; tree guard; vertebrate control; vertebrate pests

427

PEARCE, M. H.; MALAJCZUK, N.; AND KILE, G. A. 1986.

The occurrence and effects of *Armillaria luteobubalina* in the karri (*Eucalyptus diversicolor* F. Muell.) forests of Western Australia*Australian Forest Research* 16(3): 243-259

Publication type: B DataType:
 Stand Type: NF

Keywords:

Armillaria luteobubalina; *Eucalyptus calophylla*; *Eucalyptus diversicolor*; fungal disease; host preference; pathogen; plantation pests; previous land use (effect of); Root and butt rots; root disease; root systems; Silviculture; stand density; understorey sampling; Western Australia

428

PETTIT, N. AND RITSON, P. 1991.

Saltbush in reforestation for salinity control*Land and Water Research News* 10: 16-19

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

Atriplex; *Atriplex amincola*; *Atriplex cinerea*; *Atriplex lentiformis*; *Atriplex nummularia*; *Atriplex* spp.; *Atriplex undulata*; clay soils; claypan; land degradation; saline site; sand; Species/provenance/clone/family trial (only); waterlogging; Western Australia

Data measured:

DATA - crown volume index, number of plants producing seedlings; height; survival

429

PETTIT, N. AND RITSON, P. 1996?.

Research reports: Effect of mound age on tree establishment in saline seeps

Land and Water Research News 6: 12-14

Publication type: E DataType: GD
Stand Type: PL

Keywords:

application timing; Casuarina obesa; establishment techniques; Eucalyptus camaldulensis; Eucalyptus cornuta; land degradation; mounding; saline site; Silviculture; site preparation; species/provenance comparison within silv. trial; waterlogging; Western Australia

Data measured:

DATA - crown depth and diameter; height; survival

430

PINKARD, E. A. 1997.

Photosynthesis and resource allocation in the crowns of Eucalyptus nitens (Dean and Maiden) Maiden following green pruning

PhD thesis, University of Tasmania

Publication type: E DataType:
Stand Type:

Keywords:

Eucalyptus nitens; photosynthesis; pruning; pruning method; Silviculture; Tasmania

431

PINKARD, E. A.; BATTAGLIA, M.; BEADLE, C. L.; AND SANDS, P. J. 1999.

Modeling the effect of physiological responses to green pruning on net biomass production of Eucalyptus nitens (Deane and Maiden) Maiden

Tree Physiology 19: 1-12

Publication type: M DataType: GD
Stand Type: PL

Keywords:

Eucalyptus nitens; foliar analysis; MODEL; nutrition - cycling or requirements or analysis; physiology; pruning; Silviculture; Tasmania

Data measured:

DATA - leaf area per height zone, instantaneous rates of light-saturated CO₂ assimilation, leaf dark respiration, foliar N content, air temperate, rainfall, photo flux density in crown; calculated: total dry matter production

432

PINKARD, E. A. AND BEADLE, C. L. 1996.

Impact of green pruning on Eucalyptus nitens growth (Abstract)

In: 1996 Australian Forest Growers conference "Farm Forestry and plantations", Mount Gambier, South Australia, 9-12 September, 1996, Australian Forest Growers, p. 292 (Abstract)

Publication type: G DataType: GEN - Experiment design
Stand Type: PL

Keywords:

Eucalyptus nitens; pruning; Silviculture; Tasmania

433

PINKARD, E. A. AND BEADLE, C. L. 1998.

Effects of green pruning on growth and stem shape of Eucalyptus nitens (Deane and Maiden) Maiden

New Forests 15(2): 107-126

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Eucalyptus nitens; pruning; Silviculture; site comparison (within experiment); Tasmania

Data measured:

DATA - height to lowest live branch, stem diameter at range of heights, diameter of pruned and unpruned branches; calculated: diameter increment, live crown ratio, stem taper and relative height; dbh; height

434

PINKARD, E. A. AND BEADLE, C. L. 1998.

Above-ground biomass partitioning and crown architecture of Eucalyptus nitens (Deane and Maiden) Maiden following green pruning

Canadian Journal of Forest Research 28: 1419-1428

Publication type: E DataType: GD
Stand Type: PL

Keywords:

biomass - above-ground; Eucalyptus nitens; pruning; Silviculture; Tasmania

Data measured:

DATA - foliage age class, total branch length, branch diameter and angle from vertical, leaf and branch dry mass, individual leaf area and dry mass, crown radius; dbh; height

435

PINKARD, E. A. AND BEADLE, C. 2000.

Factors affecting pruning responses in eucalypt plantations

In: The future of eucalypts for wood products. Proceedings of the IUFRO conference 19-24 March, 2000, Country Club Casino, Launceston, Tasmania, Australia, pp. 328-334

Publication type:	G	DataType:	GD
			GEN - Review, discussion or brief article
Stand Type:	PL		

Keywords:

Eucalyptus nitens; fertiliser - application or requirement; pruning; Silviculture; site comparison (within experiment); Tasmania

Data measured:

DATA - height and diameter increment, percentage change in photosynthetic capacity, percentage crown length, leaf area index; dbh; height; tree form

436

PINKARD, E. A.; BEADLE, C.; DAVIDSON, N.; AND BATTAGLIA, M. 1995.

Changes in crown productivity and stem growth of Eucalyptus nitens in response to green pruning

In: Eucalyptus plantations: improving fibre yield and quality, CRCTHF-IUFRO Conference, Hobart, Australia, pp. 377-378

Publication type:	E	DataType:
Stand Type:	PL	

Keywords:

pruning; Tasmania

437

PINYOPUSAREK, K. AND WILLIAMS, E. R. 2000.

Range-wide provenance variation in growth and morphological characteristics of Casuarina equisetifolia grown in Northern Australia

Forest Ecology and Management 134: 219-232

Publication type:	E	DataType:	GD
Stand Type:	PL - MINE		

Keywords:

Casuarina equisetifolia; foliage damage; Queensland; Silviculture

Data measured:

DATA - axis persistence, stem straightness, density, thickness, angle and length of permanent branches, thickness and length of deciduous branchlets, stem and foliage damage, flowering and fruiting; dbh; height; tree form

438

PISASALE, M. 1999.

Herbicide trial in an irrigated plantation

Agroforestry News 8(3): 9

Publication type: E DataType:
Stand Type: PL

Keywords:

extension article; herbicide; irrigation; New South Wales; R6447; Silviculture; simazine; Spinnaker; Stomp

Data measured:

DATA - height increment

439

POLGLASE, P. G.; TOMPKINS, D.; STEWART, L. G.; FALKINER, R. A. 1995.

Mineralization and leaching of nitrogen in an effluent-irrigated pine plantation

Journal of Environmental Quality 9: 911-920

Publication type: E DataType:
Stand Type: PL

Keywords:

Eucalyptus globulus; irrigation; irrigation - effluent; sewage effluent; soil analysis; Victoria

440

PRINSLEY, R. T. 1991.

Australian agroforestry: setting the scene for future research

Rural Industries Research and Development Corporation, Canberra

Publication type: D DataType:
Stand Type:

Keywords:

agroforestry; research directory

441

QUEENSLAND FOREST SERVICE 1950.

Research: Yield plots in Maple (*F. brayleyana*) plantations*Annual report of the Queensland Forestry Service 1949-50, p. 6*

Publication type:	E	DataType:	GD GEN - Project description
Stand Type:	demonstration/routine management plot PL		

Keywords:

Flindersia; Flindersia brayleyana; Queensland; Queensland maple; rainforest tree species (native); Silviculture

Data measured:

dbh; height; volume

442

QUEENSLAND FOREST SERVICE 1959.

N-P interaction*Extract from Annual report of Queensland Forestry Service 1959/60, pp. 20-21*

Publication type:	E	DataType:	GD GEN - Project description
Stand Type:	PL		

Keywords:

Agathis australis; application rate; Araucaria; Araucaria cunninghamii; cultivation; establishment techniques; fertiliser - application or requirement; fertilisers - urea; gymnosperm; NaH₂PO₄; NH₄SO₄; nutrition - cycling or requirements or analysis; phosphorus nitrogen ratio; Pinus caribaea; Pinus taeda; Queensland; rainforest tree species (native); Silviculture; site preparation; superphosphate; underplanting

Data measured:

DATA - height increment; dbh; height

443

RADOMILJAC, A. M. 1998.

The influence of pot host species, seedling age and supplementary nursery nutrition on *Santalum album* Linn. (Indian sandalwood) plantation establishment with the Ord River Irrigation Area, Western Australia*Forest Ecology and Management* 102: 193-201

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Acacia hemignosta; Alternanthera nana; Atalaya hemiglauc; clay soils; Crotalaria retusa; establishment techniques; host preference; mixed species; nutrition - cycling or requirements or analysis; planting stock; sandalwood; *Santalum album*; Sesbania formosa; Silviculture; Western Australia

Data measured:

diameter; height; survival

444

RADOMILJAC, A. M.; MCCOMB, J. A.; AND SHEA, S. R. 1998.

Field establishment of *Santalum album* L. - the effect of the time of introduction of a pot host (*Alternanthera nana* R. Br.)*Forest Ecology and Management* 111(2-3): 107-118

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Alternanthera nana; foliar analysis; host preference; nutrition - cycling or requirements or analysis; planting stock; sandalwood; *Santalum album*; Silviculture; Western Australia

Data measured:

DATA - *Santalum album*: stem, leaf and root dry weight, foliar analysis (N, Ca, Mg Cu, Mn, Zn, K, Na, P), number of connected haustoria per plant; *Alternanthera nana*: ground cover area and shoot dry weight; diameter; height; survival

445

RADOMILJAC, A. M.; SHEA, S. R.; MCKINNELL, F. H.; AND MCCOMB, J. A. 1998.

Potential for irrigated tropical forestry in northern Western Australia*Australian Forestry* 61(2): 70-75

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Alternanthera spp.; host preference; irrigation; irrigation - fresh water; Khaya anthotheca; Khaya senegalensis; Mastotermes darwiniensis; mixed species; Pterocarpus angolensis; Pterocarpus indicus; Pterocarpus macrocarpus; Pterocarpus marsupium; rainforest tree species (exotic); sand; sandalwood; Santalum album; Species trial (only); species/provenance comparison within silv. trial; Swietenia mahogani; teak; Tectona grandis; termites; Western Australia

Data measured:

basal area; DATA - shoot dry weight; diameter; height; survival

446

RAISON, R. J.; KHANNA, P. K.; CONNELL, M. J.; AND FALKINER, R. A. 1990.

Effects of water availability and fertilization on nitrogen cycling in a stand of Pinus radiata*Forest Ecology and Management* 30: 31-43

Publication type:	P	DataType:	
Stand Type:	PL		

Keywords:

Australian Capital Territory; cold climate site; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - nitrogen and phosphorus; fertilisers - phosphorus; fertilisers - urea; gymnosperm; irrigation; later age fertiliser; low rainfall site; nutrient analysis; nutrition - cycling or requirements or analysis; Pinus radiata; Silviculture; soil analysis

Data measured:

DATA - soil mineral N fluxes (N mineralization field and lab, N uptake by plants), N concentrations in soil percolate, litterfall, percentage increment basal area, foliar N; dbh; height

447

RALPH, W. 1990.

Exploring agroforestry in the subtropics*Rural Research 146: 12-15*

Publication type: G DataType: GEN - Review, discussion or brief article

Stand Type: PL

Keywords:

agroforestry; biomass production; Cyperales; Eucalyptus grandis; extension article; grazing; pasture; Poaceae; Queensland; Setaria; Setaria sphacelata; Silviculture; silvopastoral systems; spacing; tree competition

Data measured:

biomass; plant production; yield

448

RANCE, S. J.; CROMER, R. N.; CAMERON, D. M.; WILLIAMS, E. R.; RYAN, P. A.; BROWN, M.; JOHNSTON, J. B.; AND BORSCHMANN, G. R. 1990.

Reponse of young Eucalyptus grandis to fertilizer treatments. I. Biomass, leaf area, volume and wood density

In: Cromer, R. N. (ed.) Shell hardwood plantation development project - Final report, Report by CSIRO Division of Forestry and Forest Products, to Shell Company of Australia Limited

Publication type: E & W DataType: GD

Stand Type: PL

Keywords:

biomass - above-ground; biomass production; Eucalyptus grandis; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; plant analysis; Queensland; Silviculture

Data measured:

biomass; DATA - individual tree height and diameter, height to and diameter at base of green crown, crown radius, foliage specific leaf area (area, mass) and nutrient analysis, branch wood and leaf fresh and dry weight, diameter along stem, wood density; leaf area

449

RAWAL, A. Y.; BIRD, P. R.; AND LAWRIE, A. C. 1999.

Symbiotic and genetic diversity of blackwood(Acacia melanoxylon R. Br) rhizobia in the field

In: Proceedings 12th Australian nitrogen fixation conference, Eds. Slattery, J. and Curran, E., Australian Society for Nitrogen Fixation, Rutherglen, Victoria, pp. 7-8

Publication type: E DataType:

Stand Type: NURS

PL

Keywords:

Acacia; rhizobia; Silviculture

450

RAYMOND, C. A. 1995.

Genetic variation in *Eucalyptus regnans* and *Eucalyptus nitens* for levels of observed defoliation caused by the *Eucalyptus* leaf beetle, *Chrysophtharta bimaculata* Olivier, in Tasmania

Forest Ecology and Management 72: 21-29

Publication type: A DataType:
Stand Type: PL

Keywords:

beetles (Coleoptera); *Chrysophtharta bimaculata*; *Eucalyptus nitens*; *Eucalyptus regnans*; insect pests; pest monitoring; plantation pests; provenance trial (only); Species/provenance/clone/family trial (only); Tasmania; tree breeding

Data measured:

DATA - defoliation score (degree of removal of current seasons growth from the top of the canopy) - different years; dbh; height

451

RAYMOND, C. A. AND MUNERI, A. 2000.

Effect of fertiliser on wood properties of *Eucalyptus globulus*

Canadian Journal of Forest Research 30: 136-144

Publication type: W DataType: GD
Stand Type: PL

Keywords:

Eucalyptus globulus; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; fertilisers - urea; pulpwood production; site comparison (across experiments); superphosphate; Victoria; Western Australia; wood density; wood fibre; wood

Data measured:

DATA - wood cores: basic density, fibre length, fibre coarseness, wood chemistry (N, P), kraft pulpt yield, dbh of sampled trees, underbark volume; dbh; volume

452

RAYMOND, C. A.; VOLKER, P. W.; AND WILLIAMS, E. R. 1997.

Provenance variation, genotype by environment interactions and age-age correlations for *Eucalyptus regnans* on nine sites in south eastern Australia

Forest Genetics 4(4): 235-251

Publication type: E DataType: GD
Stand Type: PL

Keywords:

E. regnans x *E. obliqua*; *Eucalyptus regnans*; provenance trial (only); site comparison (within experiment); Tasmania; Victoria

Data measured:

DATA - stem straightness, branch quality score; dbh; survival

453

REDDELL, P.; WEBB, M. J.; POA, D.; AND AIHUNA, D. 1999.

Incorporation of slow-release fertilisers into nursery media: A highly effective technique for supplying nutrients during early field establishment of plantation trees in the humid tropics

New Forests 18: 277-287

Publication type: B DataType: GD
Stand Type: PL

Keywords:

Acacia; Acacia mangium; application method; clones; fertiliser - application or requirement; Gmelina; Gmelina arborea; Macrocarpa; nursery practice; Nutricote; nutrition - cycling or requirements or analysis; outplanting; Pacific; planting stock; rainforest tree species (exotic); Silviculture

Data measured:

DATA - volume index; diameter; height

454

RICHARDS, B. N. 1962.

Increased supply of soil nitrogen brought about by Pinus

Ecology 43: 538-541

Publication type: E DataType:
Stand Type:

Keywords:

Araucaria; Araucaria cunninghamii; fertiliser - application or requirement; fertilisers - nitrogen; gymnosperm; hoop pine; legume; Pinus; Pinus elliottii; Pinus taeda; Queensland; rainforest tree species (native); Silviculture; underplanting

455

RICHARDS, B. N. 1967.

Introduction of the rain-forest species Araucaria cunninghamii Ait. to a dry sclerophyll forest environment

Plant and Soil 27: 201-216

Publication type: E DataType: GD
Stand Type: PL

Keywords:

ammonium fertilisers; ammonium sulphate; application rate; Araucaria; Araucaria cunninghamii; cultivation; fertiliser - application or requirement; fertilisers - copper; fertilisers - nitrogen; fertilisers - phosphorus; fertilisers - urea; fertilisers - zinc; gymnosperm; lime; Queensland; rainforest tree species (native); site preparation; trace elements

Data measured:

DATA - height increment, foliar N, P, K, S; dry weight and botanical composition of ground flora; height; survival

456

RICHARDS, B. N. AND BEVEGE, D. I. 1967.

The productivity and nitrogen economy of artificial ecosystems comprising various combinations of perennial legumes and coniferous tree species*Australian Journal of Botany* 15(3): 467-480

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Agathis robusta; Araucaria; Araucaria cunninghamii; biomass - above-ground; biomass production; cover crop; cover crop - legume; Desmodium uncinatum; fertiliser - application or requirement; gymnosperm; Lotononis bainesii; Phaseolus atropurpureus; Pinus caribaea var. hondurensis; Pinus elliottii; Pinus hondurensis; Pinus taeda; Queensland; rainforest tree species (native); Silviculture; underplanting

Data measured:

biomass; DATA - moisture content and dry weight of plant components, dry weight and total nitrogen of litter, trees, legumes and herbs, soil bulk density, total N, organic carbon; height

457

RICHARDS, B. N. AND BEVEGE, D. I. 1969.

Critical foliage concentrations of nitrogen and phosphorus as a guide to the nutrient status of Araucaria underplanted to Pinus*Plant and Soil* 31(2): 328-36

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Araucaria; Araucaria cunninghamii; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; fertilisers - urea; foliar analysis; gymnosperm; nutrition - cycling or requirements or analysis; Queensland; rainforest tree species (native); superphosphate

Data measured:

DATA - foliage N and P; height

458

RIRDC, 2000.

RIRDC's Completed Projects in 1999-2000 and Research in Progress as at June 2000 (also previous year's completed projects)*Rural Industry Research and Development Corporation* (<http://www.rirdc.gov.au/contents.html>)

Publication type:	D	DataType:	
Stand Type:			

Keywords:

research directory

459

RITSON, P. 1995.

Silviculture for managing parrot damage to bluegum tree crops

Information prepared for Bluegum growers September 1995 from a project funded by Commonwealth Bureau of Resource Sciences (Vertebrate Pest Program), CALM, Bunnings Treefarms and Australian Eucalypts Ltd.

Publication type: E DataType: GD
Stand Type: PL

Keywords:

birds (as pests); coppice; economics; Eucalyptus globulus; parrot; plantation pests; pruning; Silviculture; site comparison (within experiment); thinning; vertebrate pests; Western Australia

Data measured:

basal area; DATA - incidence of bark stripping by parrots, percentage of stumps carrying coppice; height; survival; tree form

460

RITSON, P. 1995.

Parrot damage to bluegum tree crops

Paper prepared by Peter Ritson (Consultant forester), 32 Airlie Stree, Claremont, WA 6010. Based on work funded by Commonwealth Bureau of Resource Sciences (Vertebrate Pest Program), CALM, Bunnings Treefarms and Australian Eucalypts Ltd. September 1995 6 pp.

Publication type: E DataType:
Stand Type: PL

Keywords:

birds (as pests); coppice; Eucalyptus globulus; parrot; pest control; pest monitoring; plantation pests; pruning; Silviculture; site comparison (within experiment); thinning; vertebrate control; vertebrate pests; Western Australia

Data measured:

DATA - cumulative attack rate per tree, incidence of bark stripping, coppicing response, stump survival rate; tree form

461

RITSON, P. 1995.

Parrot damage to bluegum tree crops. A review of the problem and possible solutions*Resource Management technical report 150, Agriculture Western Australian, South Perth, Western Australia, 112 pp.*

Publication type: G **DataType:** GEN - Review, discussion or brief article
Stand Type: PL

Keywords:

birds (as pests); coppice; edge effect; Eucalyptus globulus; parrot; pest control; plantation pests; pruning; repellents; Silviculture; site comparison (within experiment); vertebrate control; vertebrate pests; Western Australia

Data measured:

DATA - incidence of bark stripping or other damage, percentage trees attacked per day, percentage attack below 3.3 m height; tree form

462

RITSON, P. AND PETTIT, N. 1989.

Seedling containers and mulching for tree establishment in saline seeps*Land and Water Research News 3: 16-17*

Publication type: E **DataType:** GD
Stand Type: PL

Keywords:

container grown plants; establishment techniques; Eucalyptus botryoides; Eucalyptus camaldulensis; Eucalyptus cornuta; Eucalyptus woollsiana; land degradation; mulching; mulching - hay; mulching - sawdust; planting stock; saline site; Silviculture; species/provenance comparison within silv. trial; Western Australia

Data measured:

survival

463

RITSON, P. AND PETTIT, N. 1989.

Mounding for tree establishment in saline seeps*Land and Water Research News 2: 17-18*

Publication type: E **DataType:** GD
Stand Type: PL

Keywords:

application method; establishment techniques; Eucalyptus camaldulensis; Eucalyptus largiflorens; land degradation; mounding; saline site; Silviculture; site comparison (within experiment); site preparation; species/provenance comparison within silv. trial; Western Australia

Data measured:

DATA - crown depth and diameter; survival

464

RITSON, P. AND PETTIT, N. E. 1989.

Salt and water movement in single and double ridge mounds

Water Authority of Western Australia, Report No. WS 45

Publication type: P DataType:
Stand Type:

Keywords:

establishment techniques; land degradation; mounding; saline site; Silviculture; site preparation; Western Australia

Data measured:

DATA - soil (salt and water content)

465

RITSON, P. AND PETTIT, N. 1990.

Drainage of saline seeps to improve tree establishment

Land and Water Research News 8: 28-30

Publication type: E DataType: GD
Stand Type: PL

Keywords:

application method; Casuarina obesa; establishment techniques; Eucalyptus camaldulensis; land degradation; mounding; saline site; Silviculture; site preparation; species/provenance comparison within silv. trial; Western Australia

Data measured:

DATA - crown depth and diameter; height; survival

466

RITSON, P. AND PETTIT, N. E. 1990.

Why fertilise eucalypts?

Land and Water Research News 7: 19-21

Publication type: E DataType: GD
Stand Type: PL

Keywords:

application rate; establishment techniques; Eucalyptus camaldulensis; fertiliser - application or requirement; low rainfall site; sand; Silviculture; site comparison (within experiment); soil analysis; soil type; waterlogging; Western Australia

Data measured:

DATA - crown depth and diameter, soil analysis (N, P, K); height; survival

467

RITSON, P. AND PETTIT, N. E. 1990.

Research reports: When to plant trees?*Land and Water Research News 5: 27-29*

Publication type: E DataType: GD

Stand Type: PL

Keywords:

establishment techniques; Eucalyptus camaldulensis; Eucalyptus cornuta; Eucalyptus globulus; Eucalyptus microcarpa; Eucalyptus sideroxylon; Eucalyptus woollsiana; land degradation; low rainfall site; planting date; saline site; Silviculture; site comparison (within experiment); species/provenance comparison within silv. trial; waterlogging; Western Australia

Data measured:

DATA - crown depth and diameter, soil analysis (EC, total soluble salts); height; survival

468

RITSON, P. AND PETTIT, N. E. 1991.

**E. globulus coppice study at Malcolm's site in the Wellington Reservoir
Catchment: A progress report**
Report No. WS 79, February 1991, Water Authority of Western Australia

Publication type: E DataType: GD

Stand Type: PL

Keywords:

application rate; application timing; coppice; cutting management; Eucalyptus globulus; fertiliser - application or requirement; fertilisers - nitrogen - phosphorus - potassium; NPK Blue; Silviculture; Western Australia

Data measured:

basal area; DATA - height of tallest stem, diameter of all stems, crown volume index, survival of stump, soil and foliage N,P,K; survival

469

RITSON, P. AND PETTIT, N. E. 1992.

Double-ridge mounds improve tree establishment in saline seeps*Forest Ecology and Management 48(1-2): 89-98*

Publication type: E DataType: GD

Stand Type: PL

Keywords:

application method; establishment techniques; Eucalyptus camaldulensis; Eucalyptus largiflorens; land degradation; mounding; saline site; salinity comparison; Silviculture; site comparison (within experiment); site preparation; waterlogging; Western Australia

Data measured:

DATA - crown depth and diameter; height; survival

470

RITSON, P.; PETTIT, N. E. AND MCGRATH, J. F. 1991.

Fertilising eucalypts at plantation establishment on farmland in south-west Western Australia*Australian Forestry* 54(3): 139-147

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Agran 34-0; application method; application timing; establishment techniques; Eucalyptus camaldulensis; Eucalyptus cornuta; Eucalyptus globulus subsp. globulus; Eucalyptus melliodora; Eucalyptus microcarpa; Eucalyptus sideroxylon ssp. sideroxylon; Eucalyptus woollsiana; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; Silviculture; site comparison (within experiment); soil type; species/provenance comparison within silv. trial; superphosphate; Western Australia

Data measured:

basal area; dbh; height; survival

471

ROBERTS, R. J. AND SAWTELL, N. L. 1981.

Survival and growth of local and other eucalypts planted on the Northern Tablelands

In: Old, K. M.; Kile, G. A.; and Ohmart, C. P. (Eds.) Eucalypt dieback in forests and woodlands. Proceedings of a conference held at the CSIRO Division of Forest Research, Canberra, 4-6 August 1980, pp. 87-94; CSIRO; Canberra; Australia

Publication type:	E	DataType:
Stand Type:	PL	

Keywords:

damage (biotic agents, harvesting); dieback; insect pests; New South Wales; pathogen; plantation pests; Species/provenance/clone/family trial (only)

472

ROBINSON, MICHAEL BARRETT 1991.

Direct seeding on farms with special emphasis on the southern Tablelands of N.S.W. and the effects of relative humidity on native tree seed germination*Honours thesis, Australian National University, Canberra*

Publication type:	E	DataType:
Stand Type:	DS	

Keywords:

New South Wales

473

ROBSON, K. 1997.

Nutrient rate and fertiliser reponses

Paper presented at QFRI and CRCTREM nutrition Research in Tropical Tree Plantations Seminar, South Johnstone, August 22 1997. pp. 12-14

Publication type: E DataType: GD
Stand Type: PL

Keywords:

application rate; Elaeocarpus angustifolius; establishment techniques; Eucalyptus pellita; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - urea; Flindersia; Flindersia brayleyana; mixed species; Queensland; Queensland maple; rainforest tree species (native); silver quandong; species/provenance comparison within silv. trial

Data measured:

height

474

ROWELL, D. M. 1991.

Tree planting on farms on the Southern Tablelands - an overview of procedures and performance

Honours thesis, Australian National University, Canberra

Publication type: G DataType:
Stand Type:

Keywords:

Australian Capital Territory; New South Wales; Pinus

475

RUMLEY, A. K. 1999.

Investigation of the influences of environmental factors on leaf area index in E. nitens plantations in Tasmania

Honours thesis, Australian National University, Canberra

Publication type: E DataType:
Stand Type:

Keywords:

Eucalyptus nitens; site comparison (within experiment); Tasmania

Data measured:

leaf area

479

RYAN, P. A. AND BELL, R. E. 1989.

Growth, coppicing and flowering of Australian tree species in trials in south east Queensland, Australia*In: Boland, D. J. (ed.) Trees for the tropics. Growing Australian multipurpose trees and shrubs in developing countries, ACIAR monograph No. 10, Canberra, Australia*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Acacia; Acacia aulacocarpa; Acacia cincinnata; Acacia crassicaarpa; coppice; cutting management; insect species - general list; Queensland; Silviculture; species/provenance comparison within silv. trial

Data measured:

diameter; height; survival

480

RYAN, P. A.; CAMERON, D. M.; AND BURGESS, P. 1990.

Preliminary results of species/provenance growth and yield experiments and species elimination experiments in north and south Queensland*In: Cromer, R. N (Ed.) Shell hardwood plantation development project - Final report, Report by CSIRO Division of Forestry and Forest Products, to Shell Company of Australia Limited*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Acacia; Acacia aulacocarpa; Acacia auriculiformis; Acacia cincinnata; Acacia crassicaarpa; Acacia elata; Acacia glaucocarpa; Acacia leptocarpa; Acacia mangium; Acacia mearnsii; Acacia melanoxylon; Acacia neriifolia; Acacia parramattensis; Albizia lebbeck; Albizia procera; Alphitonia petriei; Cedrela odorata; Cordia alliodora; Eucalyptus acmenoides; Eucalyptus alba; Eucalyptus benthamii var. benthamii; Eucalyptus botryoides; Eucalyptus camaldulensis; Eucalyptus citriodora; Eucalyptus cloeziana; Eucalyptus deanei; Eucalyptus dunnii; Eucalyptus grandis; Eucalyptus henryi; Eucalyptus maculata; Eucalyptus microcorys; Eucalyptus nigra; Eucalyptus pellita; Eucalyptus pilularis; Eucalyptus planchoniana; Eucalyptus propinqua; Eucalyptus punctata var. longirostrata; Eucalyptus pyrocarpa; Eucalyptus quadrangulata; Eucalyptus resinifera; Eucalyptus saligna; Eucalyptus sphaerocarpa; Eucalyptus tereticornis; Eucalyptus torelliana; Eucalyptus urophylla; Gmelina; Gmelina arborea; insect pests; insect species - general list; Leucaena; Leucaena diversifolia; Leucaena leucocephala; Melaleuca leucadendra; Paulownia; Paulownia tomentosa; plantation pests; Queensland; Sesbania formosa; site comparison (within experiment); species comparison (general); Species/provenance/clone/family trial (only); Tipuana tipu

Data measured:

DATA - proportion of original trees with single stem, level of crown defoliation, stem size class distribution; diameter; height; survival; tree form

481

RYAN, P. A.; NESTER, M. R.; AND BELL, R. E. 1991.

Responses by six Acacias to fertiliser applications on infertile sandy loam*In: Turnbull, J. W. (ed.) Advances in tropical acacia research. Proceedings of an international workshop, Bangkok, Thailand, 11-15 February, 1991, pp. 177-182, ACIAR*

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

Acacia; Acacia cincinnata; Acacia crassicaarpa; Acacia leptocarpa; Acacia mangium; Acacia neriifolia; Acacia plectocarpa; ammonium fertilisers; ammonium nitrate; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; fertilisers - potassium; Queensland; sand; Silviculture; spacing; species/provenance comparison within silv. trial; superphosphate; trace elements

Data measured:

DATA - height variance and coefficients of variation, soil pH, EC, N, OC, C/N, P, Na, K, Ca, Mg, Mn, CEC, BS; height; survival

482

RYAN, P. J. 1995.

Factors affecting the establishment and management of tree stands on rehabilitated coal mines in the Hunter Valley, New South Wales*Research Division, State Forests of New South Wales, Sydney, Research Paper No. 21*

Publication type: E DataType: GD
 Stand Type: DS - Mine Site
 Rehabilitation
 NURS

Keywords:

Acacia; Acacia implexa; Acacia longifolia; Acacia salicina; Angophora costata; application rate; biomass - above-ground; biomass production; Casuarina glauca; diphenamid; establishment techniques; Eucalyptus agglomerata; Eucalyptus albens; Eucalyptus citriodora; Eucalyptus cladocalyx; Eucalyptus cloeziana; Eucalyptus crebra; Eucalyptus fibrosa subsp. nubila; Eucalyptus globoidea; Eucalyptus gomphocephala; Eucalyptus leucoxydon; Eucalyptus maculata; Eucalyptus melliodora; Eucalyptus microcarpa; Eucalyptus microtheca; Eucalyptus moluccana; Eucalyptus punctata; Eucalyptus sideroxydon; Eucalyptus sieberi; Eucalyptus tereticornis; fertiliser - application or requirement; foliar analysis; gymnosperm; herbicide; mine site; mulching; mulching - hay; New South Wales; nutrition - cycling or requirements or analysis; other tree species not listed; Pinus; Pinus elliottii; Pinus pinaster; Pinus radiata; Pinus taeda; plant analysis; plant water relations; pre-plant herbicide application; ripping; root systems; Silviculture; site comparison (across experiments); site preparation; soil type; species mix (direct seeding); Species trial (only); species/provenance comparison within silv. trial; stand density; Starter 15 (fertiliser); substrate (mine); Surflan; thinning; water availability; water use

Data measured:

basal area; biomass; DATA - soil pH, moisture, infiltration and exchangeable cations; soil and foliage total N, P, Al, Ca, Mg, K, Na; wood analysis (N, P, Ca, Mg, K); diameter class distribution, seed viability; xylem pressure potential; root distribution; dbh; height; survival

483

RYAN, P. J.; BURNS, M. W.; BRIGGS, G.; AND HARRISON, J. 1991.

Effect of substrate on direct seeded tree stands established on coal-mine spoil of the Hunter Valley, NSW*In: Ryan, P. J. (ed.) Third Australian Forest Soils and Nutrition Conference, "Productivity in Perspective", 7-11 October 1991, Melbourne, Forestry Commission of NSW, Sydney, pp. 80-81*

Publication type:	E	DataType:	GD
Stand Type:	DS - Mine Site Rehabilitation		

Keywords:

Acacia; Acacia longifolia; Acacia saligna; Angophora costata; Casuarina glauca; establishment techniques; Eucalyptus cladocalyx; Eucalyptus crebra; Eucalyptus gomphocephala; Eucalyptus maculata; Eucalyptus punctata; Eucalyptus tereticornis; mine site; New South Wales; overburden; Silviculture; site comparison (within experiment); site preparation; soil analysis; soil type; species/provenance comparison within silv. trial

Data measured:

height; survival

484

SCHUSTER, C. 1978.

The effect of plant spacing on the early development of karri (Eucalyptus diversicolor F. Muell.)*Research Paper, Forests Department of Western Australia, Report Number: 44*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Eucalyptus diversicolor; karri; sawlogs; Silviculture; spacing; Western Australia

Data measured:

DATA - height to base of crown, percent suppressed stems; dbh; height; survival

485

SCHUSTER, C. J. 1982.

Fertilizing planted karri (Eucalyptus diversicolor F. Muell.) seedlings*Research Paper, Forests Department of Western Australia, Report Number 70: 11 pp.*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Agras; application method; application rate; application timing; biomass - above-ground; biomass production; economics; establishment techniques; Eucalyptus diversicolor; fertiliser - application or requirement; fertilisers - phosphorus; karri; Magamp; Silviculture; superphosphate; Vigran; Western Australia

Data measured:

DATA - height and diameter increments; height; survival

486

SCOTT, S.; MCARTHUR, C.; POTTS, B. M.; AND JOYCE, K. 2000.

The reponse of brushtail possums to *Eucalyptus globulus* x *E. gunnii* F1 hybrids

In: Dungey, H. S.; Dieters, M. J.; and Nikles, D. G. (eds.) "Hybrid Breeding and Genetics of Forest Trees" Proceedings of QFRI/CRC-SPF Symposium, 9-14 April 2000, Noosa, Queensland, Australia, Department of Primary Industries, Brisbane, pp. 487-490

Publication type: A DataType:
Stand Type: PL

Keywords:

Captive animal trial; *Eucalyptus globulus*; *Eucalyptus gunnii*; *Eucalyptus gunnii* x *E. globulus* F1 hybrid; *Eucalyptus nitens*; mammal browsing; plantation pests; possums; site comparison (within experiment); Species/provenance/clone/family trial (only); Tasmania; *Trichosurus vulpecula*; vertebrate pests

Data measured:

DATA - damage score (adult and juvenile foliage), leaf intake

487

SEARLE, S. D. 1996.

***Acacia melanoxylon* - a brief review of genetic variation in growth and wood characteristics**

Growing Australian blackwood Acacia melanoxylon for timber. A national strategic workshop for growers, processors and researchers, 20-22 November 1996, Lorne, Victoria,

Publication type: G DataType: GEN - Review, discussion or brief article
Stand Type:

Keywords:

Acacia; *Acacia melanoxylon*; frost tolerance; nurse crop; *Pinus radiata*; provenance trial (only); Queensland; REVIEW; Tasmania; Victoria; wood properties

Data measured:

diameter; height

488

SEARLE, S. D. 1998.

Frost tolerance of 25 temperate Acacia species in two field trials near Canberra, Australia

In: Turnbull, J. W.; Crompton, H. R.; and Pinyopusarek, K., (Eds.) Recent developments in Acacia planting. Proceedings of an international workshop held in Hanoi, Vietnam, 27-30 October 1997, Australian Centre for International Agricultural Research, Canberra, pp. 80-89

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Acacia; Acacia binervata; Acacia binervia; Acacia blayana; Acacia cangaiensis; Acacia chrysotricha; Acacia dangarensis; Acacia dealbata; Acacia deanei; Acacia decurrens; Acacia elata; Acacia falciformis; Acacia filicifolia; Acacia fulva; Acacia glaucocarpa; Acacia implexa; Acacia irrorata; Acacia irrorata subsp. velutinella; Acacia leucoclada subsp. argentifolia; Acacia leucoclada subsp. leucoclada; Acacia mearnsii; Acacia melanoxylon; Acacia nano-dealbata; Acacia obliquinervia; Acacia parramattensis; Acacia parvipinnula; Acacia silvestris; Acacia trachyphloia; Australian Capital Territory; cold climate site; Eucalyptus nitens; frost tolerance; low rainfall site; site comparison (within experiment); Species/provenance/clone/family trial (only)

Data measured:

DATA - frost assessment score, weekly max/min temperature; height

489

SEARLE, S. D.; JAMIESON, D. T.; AND COOPER, N. K. 1998.

Growth and form of 25 temperate Acacia species in two trials near Canberra, Australia

In: Turnbull, J. W.; Crompton, H. R.; and Pinyopusarek, K. (eds.) Recent developments in Acacia planting. Proceeding of an international workshop held in Hanoi, Vietnam, 27-30 October 1997, ACIAR Proceedings No. 82, Canberra

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Acacia; Acacia binervata; Acacia binervia; Acacia blayana; Acacia cangaiensis; Acacia chrysotricha; Acacia dangarensis; Acacia dealbata; Acacia deanei; Acacia decurrens; Acacia elata; Acacia falciformis; Acacia filicifolia; Acacia fulva; Acacia glaucocarpa; Acacia implexa; Acacia irrorata; Acacia irrorata subsp. velutinella; Acacia leucoclada subsp. argentifolia; Acacia leucoclada subsp. leucoclada; Acacia mearnsii; Acacia melanoxylon; Acacia nano-dealbata; Acacia obliquinervia; Acacia parramattensis; Acacia parvipinnula; Acacia silvestris; Acacia trachyphloia; Australian Capital Territory; branch architecture; cold climate site; Eucalyptus nitens; frost tolerance; low rainfall site; Silviculture; site comparison (within experiment); Species/provenance/clone/family trial (only)

Data measured:

DATA - number of stems and fraction of trees damaged by bird attack, average branch size and density for dominant and codominant stems in each tree, occurrence of root suckers; dbh; diameter; height; survival; tree form; volume

490

SEWELL, A. 2000.

Thinning of a cabinet timber species trial*Queensland Forestry Network News 5(September): 18*

Publication type: E DataType: GD
 Stand Type: demonstration/routine
 management plot

Keywords:

Elaeocarpus grandis; Flindersia; Flindersia bourjotiana; Flindersia brayleyana; Flindersia schottiana; Grevillea robusta; Melia azedarach; mixed species; Queensland; queensland maple; rainforest tree species (native); silver quandong; Species trial (only); thinning

Data measured:

height

491

SHAW, S. 2000.

ForestrySA Weed control research in SE South Australia and Western Victoria

In: Workshop on weed control in plantation forestry, University of Melbourne, School of Forestry, Creswick, 23-24 February 2000, Ed. Tomkins, Barry.

Publication type: G DataType: GEN - Project description
 Stand Type:

Keywords:

application timing; Eucalyptus globulus; herbicide; post-plant herbicide application; pre-plant herbicide application; Silviculture; South Australia; Victoria; weed control

492

SHAW, S.; BOARDMAN, R.; AND MCGUIRE, D. 1996.

Early growth of native hardwood species under effluent irrigation at Bolivar, South Australia

In: Farm forestry and plantations: investing in future wood supply, Mount Gambier, South Australia, Australian Forest Growers Conference, 9-12 September, 1996, pp. 286

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

application rate; Casuarina glauca; Eucalyptus camaldulensis; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus occidentalis; fertiliser - application or requirement; irrigation; irrigation - effluent; nutrition - cycling or requirements or analysis; sewage effluent; South Australia; Species/provenance/clone/family trial (only); water use

Data measured:

basal area; volume

496

SHEA, S. R. AND HEWETT, P. J. 1997.

The development and future potential of tree crop industries on farmlands in Western Australia*Invited paper presented at the New Zealand forest Research Institute's 50th Jubilee Forestry Celebration Day, 3 April 1997*

Publication type:	G	DataType:	GD
			GEN - Review, discussion or brief article
Stand Type:	PL		

Keywords:

Alternanthera spp.; clay soils; Dalbergia melanoxylon; economics; establishment techniques; Eucalyptus globulus; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; host preference; irrigation; Khaya anthotheca; Khaya senegalensis; Mastotermes darwiniensis; mounding; oil mallee; phosphorus nitrogen ratio; Pinus; Pinus pinaster (Portuguese provenances); Pinus radiata; Pterocarpus indicus; Pterocarpus macrocarpus; rainforest tree species (exotic); ripping; sandalwood; Santalum album; Santalum spicatum; Silviculture; site comparison (within experiment); site preparation; soil type; species/provenance comparison within silv. trial; Swietenia macrophylla; Swietenia mahogani; teak; Tectona grandis; termites; thinning; weed control;

Data measured:

basal area; diameter; survival; volume

497

SHERIFF, D. W. 1996.

Early growth of selected hardwood species and Pinus radiata near Mount Gambier (Abstract)*In: Farm forestry and plantations: investing in future wood supply, Mount Gambier, South Australia, Australian Forest Growers Conference, 9-12 September, 1996, p. 281*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Acacia; Acacia mearnsii; Casuarina glauca; Eucalyptus fraxinoides; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus saligna; fertiliser - application or requirement; gymnosperm; Pinus; Pinus radiata; Silviculture; South Australia; spacing; species/provenance comparison within silv. trial

Data measured:

volume

498

SHERIFF, D. W. AND LANDSBERG, J. J. 1996.

Limiting factors to tree growth (How can we use them to predict productivity)

In: Farm forestry and plantations: investing in future wood supply, Mount Gambier, South Australia, Australian Forest Growers Conference, 9-12 September, 1996, pp. 118-127

Publication type: G DataType: GD
GEN - Review, discussion or brief article
Stand Type: PL

Keywords:

establishment techniques; Eucalyptus globulus; herbicide; insecticide; Orthene; pest control; photosynthesis; physiology; plant water relations; Roundup; Silviculture; South Australia; transpiration; water use; weed control

Data measured:

volume

499

SILBERSTEIN, R. P. ; VERTESSY, R. A. ; MORRIS, J. ; AND FEIKEMA, P. M. 1999.

Modelling the effects of soil moisture and solute conditions on long-term tree growth and water use: a case study from the Shepparton irrigation area, Australia

Agricultural Water Management 39(2-3): 283-315

Publication type: M DataType:
Stand Type: PL

Keywords:

Eucalyptus camaldulensis; Eucalyptus grandis; irrigation; low rainfall site; MODEL; physiology; plant water relations; saline site; soil analysis; Victoria; water availability; water use

Data measured:

DATA - sap velocity, sapwood area, tree ring radius, LAI, soil samples, saturated hydraulic conductivity, water table level; calculated: live stem carbon

500

SIMPSON, J.; STONE, C.; AND ELDRIDGE, R. 1997.

Eucalypt plantation pest and diseases - crop loss study*Forest Research and Development Division, State Forests of New South Wales, 47 pp.*

Publication type: A DataType: GD
 Stand Type: PL

Keywords:

altitude; Corymbia; Corymbia citriodora; Corymbia maculata; Corymbia variegata;
 Eucalyptus agglomerata; Eucalyptus amplifolia; Eucalyptus andrewsii subsp. andrewsii;
 Eucalyptus andrewsii subsp. campanulata; Eucalyptus badjensis; Eucalyptus botryoides;
 Eucalyptus cloeziana; Eucalyptus cypellocarpa; Eucalyptus dalrympleana subsp. heptantha;
 Eucalyptus deanei; Eucalyptus delegatensis; Eucalyptus dunnii; Eucalyptus fastigata;
 Eucalyptus fraxinoides; Eucalyptus globoidea; Eucalyptus globulus subsp. bicostata;
 Eucalyptus globulus subsp. globulus; Eucalyptus globulus subsp. maidenii; Eucalyptus
 grandis; Eucalyptus laevopinea; Eucalyptus microcorys; Eucalyptus muelleriana; Eucalyptus
 nitens; Eucalyptus obliqua; Eucalyptus oreades; Eucalyptus ovata; Eucalyptus pilularis;
 Eucalyptus propinqua; Eucalyptus quadrangulata; Eucalyptus regnans; Eucalyptus rummeryi;
 Eucalyptus saligna; Eucalyptus sieberi; Eucalyptus smithii; Eucalyptus viminalis; fungal
 disease; fungicide; insect pests; insecticide; New South Wales; pathogen species - general
 list; pest control; plantation pests; provenance trial (only); site comparison (within
 experiment); soil type; species/provenance comparison within silv. trial

Data measured:

DATA - fungal and insect scores; height, dbh and mortality pooled across eucalyptus
 subgroups, Symphyomyrtus, Moncalyptus and Corymbia for insecticide/fungicide trial;
 diameter; height

501

SMETHURST, P. J. 2000.

Soil solution and other soil analyses as indicators of nutrient supply: a review*Forest Ecology and Management 138: 397-411*

Publication type: S DataType: GEN - Review, discussion or brief article
 Stand Type: PL

Keywords:

Eucalyptus globulus; Eucalyptus nitens; fertiliser - application or requirement; nutrition -
 cycling or requirements or analysis; Pinus; Pinus elliottii; Pinus radiata; REVIEW; soil
 analysis; Tasmania

Data measured:

DATA - relative yield or growth response compared with soil N or P, N uptake

502

SMETHURST, P. J.; LINE, M. A.; AND MORONI M. T. 1998.

Soil microbial biomass and activity in two eucalypt plantations soils after fertilisation*Tasforests 10: 69-73*

Publication type:	S	DataType:
Stand Type:	PL	

Keywords:

establishment techniques; fertiliser - application or requirement; fertilisers - nitrogen; Silviculture; site comparison (within experiment); soil analysis; soil type; Tasmania

Data measured:

DATA - soil microbial biomass, microbial activity, soil moisture content

503

SMITH, C. J. AND BOND, W. J. 1999.

Losses of nitrogen from an effluent-irrigated plantation*Australian Journal of Soil Research 37: 371-89*

Publication type:	S	DataType:
Stand Type:	PL	

Keywords:

Eucalyptus grandis; irrigation; irrigation - bore water; irrigation - effluent; New South Wales; nutrition - cycling or requirements or analysis; Pinus radiata; Silviculture; soil analysis; species/provenance comparison within silv. trial

Data measured:

DATA - soil total N, N15, inorganic N, Br- content, soil moisture, rainfall, evaporation

504

SMITH, G. AND KEARNEY, D. 2000.

Occlusion rates and growth impacts following pruning of five subtropical eucalypt species

In: Cooperative Research Centre for Sustainable Production Forestry Pruning and thinning workshop, held at Queensland Forestry Research Institute, Gympie 3-5 May 2000.

Publication type:	E	DataType:
Stand Type:	PL	

Keywords:

Eucalyptus cloeziana; Eucalyptus dunnii; Eucalyptus grandis; Eucalyptus pilularis; New South Wales; pruning; Silviculture

Data measured:

DATA - dbh increment, green crown dimension, height increment, branch (location, diameter, angle, height, completeness), occlusion rates for pruned and unpruned branches

505

SMITH, G.; KEARNEY, D.; AND MONTAGU, K. 2000.

Growth and branch occlusion after pruning in four sub-tropical Eucalypt

In: Snell, A. and Vize, S. (eds.) *Proceedings of the Australian Forest Growers conference, "Opportunities for the New Millennium", Cairns Convention Centre, 4-6 September 2000, pp. 262 (and handout accompanying poster at conference)*

Publication type: E DataType:
Stand Type: PL

Keywords:

Eucalyptus cloeziana; Eucalyptus dunnii; Eucalyptus grandis; Eucalyptus pilularis; New South Wales; pruning; species/provenance comparison within silv. trial

Data measured:

DATA - percentage branches occluded, branch state, dbh increment

506

SMITH, I. W.; MARKS, G. C.; FEATHERSTON, G. R.; AND GEARY, P. W. 1989.

Effects of inter-planted wattles on the establishment of eucalypts planted on forest sites affected by Phytophthora cinnamomi

Australian Forestry 52(2): 74-81

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Acacia; Acacia leprosa; Acacia longifolia; Acacia mearnsii; Acacia verniciflua; Cardiaspina; Cardiaspina fiscella; dieback; Eucalyptus botryoides; Eucalyptus sideroxylon; Eucalyptus sieberi; Eumycota; Fabaceae; foliage damage; fungal disease; Hemiptera; insect pests; Mastigomycotina; mixed species; nurse crop; pathogen; Phytophthora cinnamomi; plantation pests; Psyllidae; Silviculture; Victoria; water availability

Data measured:

DATA - soil water potential, soil inoculum (P. cinnamomi), mean percentage defoliation of E. botryoides; diameter; height; survival

507

SNELL, A. J. AND BROOKS, S. J. 1998.

Direct seeding as a method of revegetating degraded land

In: Kikkawa, J.; Dart, P.; Doley, D.; Ishii, K.; Lamb, D.; and Suzuki, K. (eds.) Proceedings 6th international workshop of BIO-REFOR, Brisbane, Australia December 2-5, 1997, pp. 64-66

Publication type:	E	DataType:	GD
Stand Type:	DS PL		

Keywords:

Acacia; Acacia aulacocarpa; Agathis robusta; Alphitonia petriei; Cardwellia sublimis; establishment techniques; kauri; Omolanthus populifolius; planting method; Queensland; rainforest tree species (native); Silviculture; site comparison (within experiment); soil type; species/provenance comparison within silv. trial; understorey sampling

Data measured:

DATA - self seeded regenerating species and abundance; height; survival

508

SNOW, V. O.; SMITH C. J.; POLGLASE P. J.; AND PROBERT M. E. 1999.

Nitrogen dynamics in a eucalypt plantation irrigated with sewage effluent or bore water

Australian Journal of Soil Research 37: 527-44

Publication type:	S	DataType:	
Stand Type:	PL		

Keywords:

Eucalyptus grandis; gymnosperm; irrigation; irrigation - bore water; irrigation - effluent; nutrition - cycling or requirements or analysis; Pinus radiata; species/provenance comparison within silv. trial

Data measured:

DATA - tree components, weeds and leaf litter: dry weight and nutrient analysis; soil surface litter analysis (N content), soil and soil solution mineral N (nitrate and ammonium), soil mineralisation

509

SNOWDON, P. 1991.

Growth of four species of eucalypt and three species of pine in coastal sands at Jervis Bay, A. C. T.

In: Ryan, P. J. (ed.) Third Australian Forest Soils and Nutrition Conference, "Productivity in Perspective", 7-11 October 1991, Melbourne, Forestry Commission of NSW, Sydney, pp. 160-161

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Australian Capital Territory; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus pilularis; Eucalyptus sieberi; fertiliser - application or requirement; fertilisers - nitrogen; gymnosperm; New South Wales; Pinus; Pinus elliottii; Pinus pinaster; Pinus radiata; sand; species/provenance comparison within silv. trial

Data measured:

basal area; DATA - periodic annual increment; dbh; height

510

SNOWDON, P. AND BENSON, M. L. 1992.

Effects of combinations of irrigation and fertilisation on the growth and above-ground biomass production of Pinus radiata

Forest Ecology and Management 52: 87-116

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Australian Capital Territory; biomass - above-ground; biomass production; cold climate site; fertiliser - application or requirement; gymnosperm; irrigation; later age fertiliser; low rainfall site; MODEL; Pinus radiata; Silviculture

Data measured:

basal area; biomass; DATA - for each tree size class: position, size and weight of each green branch, dry weight of wood and foliage classes, wood and bark density; growth increments; dbh; height; survival; volume

511

SPECHT, A.; NICHOLS, D.; VANCLAY, J.; PARKES, A.; LUXFORD, D.; LUXFORD, J.; O'BRIEN, J.; AND GLENCROSS, K. 1999.

Assessment of mixed-species plantings on the north coast of New South Wales (Abstract)

In: Ellis, R. C. and Smethurst, P. J. (eds.) "Practising forestry today", *Proceedings of the Institute of Foresters of Australia 18th Biennial Conference 3-8 October 1999 in Hobart, Tasmania*, p. 191

Publication type: G DataType: GEN - Review, discussion or brief article
Stand Type: PL

Keywords:

Alphitonia petriei; Elaeocarpus grandis; establishment techniques; Grevillea robusta; mixed species; New South Wales; rainforest tree species (native); Silviculture; spacing

512

SPENCER, D. J. 1985.

Dry country pines: Provenance evaluation of the Pinus halepensis-P. brutia complex in the semi-arid region of South-east Australia

Australian Forestry 15: 263-279

Publication type: E DataType:
Stand Type:

Keywords:

gymnosperm; low rainfall site; New South Wales; Pinus; Pinus brutia; Pinus eldarica; Pinus halepensis; Pinus pithyusa; Species/provenance/clone/family trial (only)

513

SPRENGEL, E. A. 1957.

A mallet plantation in Western Australia

Australian Forestry 21(2): 92-6

Publication type: G DataType: GD
GEN - Review, discussion or brief article
Stand Type: PL

Keywords:

coppice; Eucalyptus astringens; low rainfall site; Western Australia

Data measured:

DATA - dry bark yield; height; survival

514

ST.CLAIR, PETER J. 1997.

Responses of Eucalyptus globulus spp. globulus and E. grandis to salinity and waterlogging*Doctor of Philosophy, Australian National University*

Publication type:	P	DataType:
Stand Type:	NURS	

Keywords:

Eucalyptus globulus subsp. globulus; Eucalyptus grandis; saline site; soil type; waterlogging

515

STACKPOLE, D. J. 2000.

Tree species selection trials near Kerang and Swan Hill*Trees and Natural Resources 42(1): 25-26*

Publication type:	E	DataType:
Stand Type:	PL	

Keywords:

Eucalyptus camaldulensis; Eucalyptus cladocalyx; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus occidentalis; Eucalyptus saligna; extension article; irrigation; irrigation - fresh water; site comparison (across experiments); site comparison (within experiment); Species/provenance/clone/family trial (only); Victoria

Data measured:

survival; volume

516

STACKPOLE, D. J.; BAKER, T. G.; AND DUNCAN, M. J. 1999.

Early growth trends following non-commercial thinning and pruning of three plantation eucalypts in northern Victoria*In: Ellis, R. C. and Smethurst, P. J. (eds.) "Practising forestry today", Proceedings of the Institute of Foresters of Australia 18th Biennial Conference 3-8 October 1999 in Hobart, Tasmania, pp.*

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

application timing; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus nitens; irrigation; irrigation - effluent; irrigation - saline water; low rainfall site; pruning; sewage effluent; Silviculture; site comparison (within experiment); species/provenance comparison within silv. trial; thinning; Victoria

Data measured:

dbh; height; volume

517

STACKPOLE, D. J.; BORSCHMANN, R.; AND BAKER, T. 1995.

Commercial tree-growing for land and water care. 3: Establishment of the pilot sites

Trees for Profit Research Centre, University of Melbourne

Publication type:	E	DataType:
Stand Type:	PL	

Keywords:

establishment techniques; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus nitens; irrigation; pruning; Silviculture; site comparison (within experiment); species/provenance comparison within silv. trial; thinning; Victoria

518

STACKPOLE, D. J. AND HAMLET, A. G. 1999.

Some prospective low rainfall species for use in low rainfall zones: performance at several Victorian irrigated sites

National low rainfall tree improvement Workshop proceedings, held at the Woodhouse Rymill Conference Centre, Adelaide, November 3-5, 1998, Eds. Bulman, P.; Underdown, M.; and Bush, D., A report for the RIRDC/LWRRDC/FWPRDC joint Venture Agroforestry Program, RIRDC publication No. 99/66, RIRDC project No. SAR-17A, pp. 29-34

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Acacia; Acacia mearnsii; Acacia melanoxylon; Casuarina cunninghamiana; Casuarina glauca; Eucalyptus botryoides; Eucalyptus brookerana; Eucalyptus camaldulensis; Eucalyptus cladocalyx; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus maculata; Eucalyptus occidentalis; Eucalyptus saligna; Eucalyptus sideroxylon; Eucalyptus viminalis; irrigation; irrigation - effluent; low rainfall site; site comparison (across experiments); site comparison (within experiment); species/provenance comparison within silv. trial; Victoria

Data measured:

DATA - forking score; dbh; height; volume

519

STEPHEN, P. 1994.

Factors affecting the success of direct seeding in three regions of Victoria

Master of Forest Science, University of Melbourne

Publication type:	E	DataType:
Stand Type:	DS	

Keywords:

soil texture; soil type; Victoria; water availability

520

STEVENS, R. M.; SWEENEY, S. M.; MEISSNER, A. P.; FRAHN, W. A.; AND DAVIES,

Survival, growth and water use of a range of tree species irrigated with saline drainage water*Australian Forestry* 62(1): 97-105

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

Acacia melanoxylon; Acacia salicina; Acacia stenophylla; Casuarina cunninghamiana; Casuarina glauca; Casuarina obesa; Eucalyptus botryoides; Eucalyptus camaldulensis; Eucalyptus condininensis; Eucalyptus globulus subsp. globulus; Eucalyptus gomphocephala; Eucalyptus grandis; Eucalyptus leucoxylon subsp. leucoxylon; Eucalyptus microtheca; Eucalyptus occidentalis; Eucalyptus robusta; Eucalyptus saligna; Eucalyptus sargentii; Eucalyptus sideroxylon; Eucalyptus sideroxylon subsp. tricarpa; Eucalyptus spathulata ssp. spathulata; Eucalyptus viminalis subsp. viminalis; evapotranspiration; Grevillea robusta; irrigation; irrigation - saline water; low rainfall site; Phoenix dactylifera; physiology; plant water relations; Robinia pseudoacacia; saline site; Salix matsudana cv. "tortosa"; sand; South Australia; Species/provenance/clone/family trial (only); water use; wood properties

Data measured:

basal area; DATA - soil (electrical conductivity, pH), water (P, total N), sap velocity, wood cores (volumetric wood and water contents, depth to cambium and heartwood), wind speed, temperature and solar radiation; calculated: vapour pressure deficit, sapwood area; diameter; height; survival

521

STEWART, H. T. L.; ALLENDER, E.; SANDELL, P.; AND KUBE, P. 1986.

Irrigation of tree plantations with recycled water 1. Research developments and case studies*Australian Forestry* 49(2): 81-88

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

Eucalyptus camaldulensis; Eucalyptus grandis; irrigation; irrigation - effluent; Northern Territory; Populus; Populus deltoides; Populus deltoides x P. nigra; possums; sewage effluent; site comparison (within experiment); South Australia; Species trial (only); Species/provenance/clone/family trial (only); Victoria

Data measured:

basal area; DATA - chemical characteristics of effluent (EC pH, total P, Ca, Mg, K, Cl, Na), MAI, merchantable under bark volume; dbh; height

522

STEWART, H. T. L. AND FLINN, D. W. 1984.

Establishment and early growth of trees irrigated with wastewater at four sites in Victoria, Australia*Forest Ecology and Management* 8: 243-256

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

Araucaria; Araucaria cunninghamii; Casuarina cunninghamiana; Eucalyptus botryoides; Eucalyptus camaldulensis; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus maculata; Eucalyptus muelleriana; Eucalyptus robusta; Eucalyptus saligna; foliar analysis; gymnosperm; hoop pine; irrigation; irrigation - effluent; nutrition - cycling or requirements or analysis; Pinus; Pinus elliottii; rainforest tree species (native); saline site; sewage effluent; site comparison (within experiment); soil type; Species trial (only); Victoria; wind

Data measured:

DATA - wind damage to trees, chemical analysis of waste water (N, P, Ca, Mg, K, Cl, and Na), foliar analysis - lower, mid upper crown (N, P, and K), observation of insect damage; diameter; height; predominant height / mean dominant height; survival

523

STEWART, H. T. L.; FLINN, D. W.; BALDWIN, P. J.; AND JAMES, J. M. 1981.

Diagnosis and correction of iron deficiency in planted eucalypts in north-west Victoria*Australian Forest Research* 11(2): 185-90

Publication type: E DataType:
 Stand Type: PL

Keywords:

calcareous soils; chlorosis; establishment techniques; Eucalyptus botryoides; Eucalyptus camaldulensis; Eucalyptus globulus subsp. globulus; Eucalyptus grandis; FeEDDHA; fertiliser - application or requirement; fertiliser - foliar; fertilisers - manganese; fertilisers - zinc; foliar analysis; iron; irrigation; irrigation - effluent; nutrient deficiencies (symptoms); nutrition - cycling or requirements or analysis; saline site; sand; sewage effluent; Silviculture; soil analysis; species/provenance comparison within silv. trial; trace elements; Victoria

Data measured:

DATA - foliar analysis (total Fe), soil analysis (pH, EC), waste water analysis (pH, P, Na, K, Ca, Mg, S, Cl, N), observation of leaf health

524

STEWART, L. G.; CROMER, R. N.; AND WILLIAMS, E. R. 1990.

Biomass and length of fine roots in *Eucalyptus grandis* with fertilizer and irrigation treatments

In: Cromer, R. N. (ed.) Shell hardwood plantation development project - Final report, Report by CSIRO Division of Forestry and Forest Products, to Shell Company of Australia Limited

Publication type: P DataType:
Stand Type: PL

Keywords:

biomass - below-ground; *Eucalyptus grandis*; fertiliser - application or requirement; irrigation; nutrient analysis; plant analysis; Queensland; root systems; Silviculture

Data measured:

DATA - biomass and length of fine roots, dry weight, chemical analysis (N, P)

525

STEWART, S. 1996.

A comparison of growth responses of *Eucalyptus globulus* to second year weed control using granular and liquid herbicides

In: Farm forestry and plantations: investing in future wood supply, Mount Gambier, South Australia, Australian Forest Growers Conference, 9-12 September, 1996, pp. 136-140

Publication type: E DataType: GD
Stand Type: PL

Keywords:

establishment techniques; *Eucalyptus globulus*; haloxyfop-methyl; herbicide; herbicide - granular; herbicide - liquid; Norflurazon; Oryzalin; Silviculture; simazine; Sulfometuron methyl; Terbacil; Victoria; weed control; weed control - second year; weed species - general list

Data measured:

DATA - height and diameter increment, tree volume index; diameter; height; survival

526

STIRZAKER, R.; LEFROY, E. C. 1997.

Alley farming in Australia: current research and future directions

RIRDC Research paper No. 97/29, Rural Industries Research and Development Corporation

Publication type: D DataType:
Stand Type:

Keywords:

agroforestry; *Albizia lebbbeck*; alley belt (timberbelt); *Leucaena*; multipurpose trees; pasture; *Pinus radiata*; REVIEW; windbreak

527

STONE, C. 1993.

Fertilizer and insecticide effects on tree growth and psyllid infestation of young *Eucalyptus grandis* and *E. dunnii* plantations in northern New South*Australian Forestry* 56(3): 257-263

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

ammonium fertilisers; ammonium nitrate; carbaryl (insecticide); *Cardiaspina*; *Cardiaspina fiscella*; *Cardiaspina maniformis*; dimethoate; *Eucalyptus dunnii*; *Eucalyptus grandis*; fertiliser - application or requirement; fertilisers - nitrate; fertilisers - nitrogen; foliage damage; Hemiptera; insect pests; insect species - general list; insecticide; Monocotophos; New South Wales; Nitram; pest control; plantation pests; Psyllidae; Rogor; Silviculture; species/provenance comparison within silv. trial

Data measured:

DATA - insect damage score in three leaf age classes; dbh; height

528

STONE, C. AND BACON, P. E. 1995.

Influence of insect herbivory on the decline of black box (*Eucalyptus largiflorens*)*Australian Journal of Botany* 43: 555-564

Publication type:	E	DataType:	GD
Stand Type:	NF		

Keywords:

Eucalyptus largiflorens; insect pests; insecticide; irrigation; low rainfall site; New South Wales; Nuvacron; pest control; plant composition; plantation pests; saline site; Silviculture; stem injection

Data measured:

DATA - crown condition score, leaf area, area of non-photosynthesising tissue, leaf shape, leaf and twig dry weight, total leaf N, seed germination, seedling leaf size, percent leaf damage; dbh

529

STONE, C.; SIMPSON, J. A.; AND ELDRIDGE, R. H. 1998.

Insect and fungal damage to young eucalypt trial plantings in northern New South Wales*Australian Forestry* 61(1): 7-20

Publication type:	A	DataType:	GD
Stand Type:	PL		

Keywords:

Corymbia; Corymbia citriodora; Corymbia maculata; Corymbia variegata; Eucalyptus agglomerata; Eucalyptus amplifolia; Eucalyptus andrewsii subsp. andrewsii; Eucalyptus andrewsii subsp. campanulata; Eucalyptus badjensis; Eucalyptus botryoides; Eucalyptus cloeziana; Eucalyptus cypellocarpa; Eucalyptus dalrympleana subsp. heptantha; Eucalyptus deanei; Eucalyptus delegatensis; Eucalyptus dunnii; Eucalyptus fastigata; Eucalyptus fraxinoides; Eucalyptus globoidea; Eucalyptus globulus subsp. bicostata; Eucalyptus globulus subsp. globulus; Eucalyptus globulus subsp. maidenii; Eucalyptus grandis; Eucalyptus laevopinea; Eucalyptus microcorys; Eucalyptus muelleriana; Eucalyptus nitens; Eucalyptus obliqua; Eucalyptus oreades; Eucalyptus ovata; Eucalyptus pilularis; Eucalyptus propinqua; Eucalyptus quadrangulata; Eucalyptus regnans; Eucalyptus saligna; Eucalyptus sieberi; Eucalyptus smithii; Eucalyptus viminalis; foliage damage; host preference; insect pests; insect species - general list; insecticide; New South Wales; pathogen species - general list; pest control; pest monitoring; plantation pests; site comparison (within experiment); Species/provenance/clone/family trial (only)

Data measured:

DATA - non-insect or non-fungal damage-causing agents, insect and disease damage for each leaf age class, type of insect damage, disease severity and intensity score; dbh; height; survival; tree form

530

STONE, C.; SIMPSON, J. A.; AND GITTINS, R. 1998.

Differential impact of insect herbivores and fungal pathogens on the Eucalyptus subgenera Symphyomyrtus and Monocalyptus and genus Corymbia

Australian Journal Botany 46: 723-734

Publication type: E DataType:
Stand Type: PL

Keywords:

Agrol; Bravo; carbaryl (insecticide); Carbene; Corymbia; Corymbia citriodora; Corymbia maculata; Corymbia variegata; dimethoate; Eucalyptus agglomerata; Eucalyptus amplifolia; Eucalyptus andrewsii subsp. andrewsii; Eucalyptus andrewsii subsp. campanulata; Eucalyptus badjensis; Eucalyptus botryoides; Eucalyptus cloeziana; Eucalyptus cypellocarpa; Eucalyptus dalrympleana subsp. heptantha; Eucalyptus deanei; Eucalyptus delegatensis; Eucalyptus dunnii; Eucalyptus fastigata; Eucalyptus fraxinoides; Eucalyptus globoidea; Eucalyptus globulus subsp. bicostata; Eucalyptus globulus subsp. globulus; Eucalyptus globulus subsp. maidenii; Eucalyptus grandis; Eucalyptus laevopinea; Eucalyptus microcorys; Eucalyptus muelleriana; Eucalyptus nitens; Eucalyptus obliqua; Eucalyptus oreades; Eucalyptus ovata; Eucalyptus pilularis; Eucalyptus propinqua; Eucalyptus quadrangulata; Eucalyptus regnans; Eucalyptus saligna; Eucalyptus sieberi; Eucalyptus smithii; Eucalyptus viminalis; fungicide; insect pests; insecticide; New South Wales; pathogen; pest control; plantation pests; Rogor; Silviculture; Species/provenance/clone/family trial (only)

Data measured:

DATA - foliage damage by insects, incidence and severity of disease in four leaf age classes, height, dbh, mortality, grouped for Eucalyptus subgroups

531

STONE, C. AND URQUHART, C. A. 1992.

Effects of treating young hand planted eucalypts with selected systemic insecticides, and identification of associated foliage insects

General and Applied Entomology 24: 53-63

Publication type: E DataType: GD
Stand Type: PL

Keywords:

autumn gum moth; carbosulfan; Christmas beetles; Chrysomelidae; disulfoton; Disyston (insecticide); Eucalyptus albens; Eucalyptus blakelyi; Eucalyptus cinerea; Eucalyptus goniocalyx; Eucalyptus macarthurii; Eucalyptus melliodora; Eucalyptus polyanthemus; Eucalyptus stellulata; insect pests; insect species - general list; insecticide; Marshal/Suscon granules (insecticide); methidathion; Mnesampela; Mnesampela privata; New South Wales; pest control; phorate; plantation pests; Silviculture; species/provenance comparison within silv. trial; stem injection; Supracide (insecticide); Thimet (insecticide); windbreak

Data measured:

DATA - insect damage score, insect species, height increment

532

STONEMAN G. L.; CROMBIE, D. S.; WHITFORD, K.; HINGSTON, F. J.; GILES R.; PORTLOCK, C. C.; GALBRAITH J. H.; AND DIMMOCK G. M. 1997.

Growth and water relations of *Eucalyptus marginata* (jarrah) stands in response to thinning and fertilization

Tree Physiology 16: 267-274

Publication type: E DataType: GD
Stand Type: NF - regrowth

Keywords:

ammonium nitrate; diammonium phosphate (DAP); *Eucalyptus marginata*; fertiliser - application or requirement; fertilisers - nitrogen and phosphorus; jarrah; physiology; plant water relations; Silviculture; stand density; thinning; water use; Western Australia

Data measured:

basal area; DATA - bark thickness, LAI, predawn and midday shoot water potential; Calculated: cumulative water stress, growth efficiency; dbh; volume

533

STONEMAN, G. L. AND WHITFORD, K. 1995.

Analysis of the concept of growth efficiency in *Eucalyptus marginata* (jarrah) in relation to thinning, fertilising and tree characteristics

Forest Ecology and Management 76: 47-53

Publication type: E DataType:
Stand Type: NF - regrowth

Keywords:

ammonium nitrate; diammonium phosphate (DAP); *Eucalyptus marginata*; fertiliser - application or requirement; jarrah; Silviculture; stand density; thinning; Western Australia

Data measured:

DATA - stand LAI (leaf area and hemispherical photographs), crown depth and width, bark thickness, predawn and midday shoot water potential, growth efficiency; calculated: growth efficiency

534

STRINGER, G. 1998.

Plantation-grown spotted gum, sugar gum and red ironbark - looking good!

Australian Forest Grower 21(2): 27

Publication type: W DataType: GEN - Review, discussion or brief article
Stand Type: demonstration/routine management plot

Keywords:

Eucalyptus cladocalyx; *Eucalyptus globulus*; *Eucalyptus maculata*; *Eucalyptus sideroxylon*; wood properties

535

STRINGER, G. 1998.

Browsing repellent research pays dividends for Australian plantations

Australian Forest Grower 21(3): 27

Publication type: E DataType: GEN - Review, discussion or brief article
Stand Type: PL

Keywords:

browsing; extension article; plantation pests; rabbit; repellents; Silviculture; vertebrate pests; Victoria

536

SUN, D. AND DICKINSON, G. R. 1993.

A system approach to study tree growth and salinity control in a dry tropical area of north Queensland.

In: Australasian forestry and the global environment. Proceedings of the 15th Biennial Conference of the Institute of Foresters of Australia.

Publication type: E DataType:
Stand Type:

Keywords:

Queensland; saline site

537

SUN, D. AND DICKINSON, G. R. 1995.

Direct seeding for rehabilitation of degraded lands in north-east Queensland

Australian Journal of Soil and Water Conservation 8(4): 14-17

Publication type: G DataType: GEN - Review, discussion or brief article
Stand Type: DS
NURS

Keywords:

Alphitonia petriei; Brachiaria decumbens; establishment techniques; land degradation; Omolanthus populifolius; Queensland; rainforest tree species (native); seed treatment; Silviculture; weed competition

538

SUN, D. AND DICKINSON, G. R. 1995.

Effect of wind on the early growth of five tree species planted to form windbreaks in northern Australia*Journal of Tropical Forest Science* 7(4): 645-656

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

agroforestry; Callistemon; Callistemon salignus; crop - maize; Cyperales; establishment techniques; Eucalyptus microcorys; Eucalyptus tessellaris; Eucalyptus torelliana; Melaleuca armillaris; mixed species; multipurpose trees; Poaceae; Queensland; Silviculture; species/provenance comparison within silv. trial; wind damage; windbreak; Zea; Zea mays

Data measured:

DATA - wind direction and speed, maize height, tree angle to ground, crown size; height

539

SUN, D. AND DICKINSON, G. R. 1995.

Salinity effects on tree growth, root distribution and transpiration of Casuarina cunninghamiana and Eucalyptus camaldulensis planted on a saline site in tropical north Australia.*Forest Ecology and Management* 77: 127-138

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

agroforestry; biomass - above-ground; biomass - below-ground; biomass production; Casuarina cunninghamiana; Cyperales; Eucalyptus camaldulensis; foliar analysis; land degradation; multipurpose trees; nutrition - cycling or requirements or analysis; physiology; plant composition; plant water relations; Poaceae; Queensland; root systems; saline site; salinity comparison; salt tolerance; Silviculture; soil type; species/provenance comparison within silv. trial; transpiration

Data measured:

biomass; DATA - soil salinity, soil chemical analysis (N, P, Na, Ca, K, Mg, conductivity, Cl, SO₄), biomass (stem, branch, root and leaf), leaf and branch chemical analysis (stem, leaf and branch), transpiration rate (tree sap velocity), water use; dbh; height; plant morphology; survival

540

SUN, D. AND DICKINSON, G. R. 1995.

Direct seeding of *Alphitonia petriei* (Rhamnaceae) for gully revegetation in tropical northern Australia*Forest Ecology and Management* 73: 249-257

Publication type:	E	DataType:	GD
Stand Type:	DS NURS		

Keywords:

Alphitonia petriei; cultivation; establishment techniques; fencing; glyphosate; herbicide; land degradation; Queensland; rainforest tree species (native); Seed pelleting; seed treatment; Silviculture; site preparation; weed competition; weed control

Data measured:

DATA - soil chemical analysis (pH, EC, N, Cl, P, Na, K, Ca, bulk density), percent weed cover, germination percentage, biomass (glasshouse experiment); height

541

SUN, D. AND DICKINSON, G. R. 1996.

Suitability of *Eucalyptus grandis* and *E. microcorys* as windbreak species in tropical northern Australia*Journal of Tropical Forest Science* 8(4): 532-541

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

agroforestry; *Eucalyptus grandis*; *Eucalyptus microcorys*; multipurpose trees; Queensland; species comparison; windbreak

Data measured:

DATA - windbreak porosity, wind speed and direction, tree crown length and width, number of branches per tree, height to lowest branch; dbh; height

542

SUN, D. AND DICKINSON, G. R. 1997.

A screening trial of 28 species conducted on non-saline and saline soils in dry tropical northeast Australia*Journal of Sustainable Forestry* 5: 1-13

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Agathis robusta; Araucaria; Araucaria cunninghamii; Azadirachta indica; Cedrela odorata; Eucalyptus argophloia; Eucalyptus brockwayi; Eucalyptus camaldulensis; Eucalyptus citriodora; Eucalyptus drepanophylla; Eucalyptus grandis; Eucalyptus intermedia; Eucalyptus leptophleba; Eucalyptus maculata; Eucalyptus microcorys; Eucalyptus moluccana; Eucalyptus paniculata; Eucalyptus pellita; Eucalyptus raveretiana; Eucalyptus robusta; Eucalyptus tereticornis; Eucalyptus urophylla; Flindersia; Flindersia brayleyana; Grevillea robusta; gymnosperm; hoop pine; kauri; Khaya senegalensis; Paulownia; Paulownia fortunei; Paulownia tomentosa; Pinus caribaea var. hondurensis; Pinus elliottii x P. caribaea hondurensis; Queensland; Queensland maple; rainforest tree species (exotic); rainforest tree species (native); saline site; salinity comparison; Silviculture; site comparison (within experiment)

Data measured:

DATA - soil salinity; dbh; height; survival

543

SUN, D. AND DICKINSON, G. R. 1997.

Preliminary results of a provenance trial of Eucalyptus camaldulensis in a dry tropical area of North Australia*Journal of Tropical Forest Science* 9(3): 354-358

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Eucalyptus camaldulensis; genotype; low rainfall site; mulching; mulching - hay; multipurpose trees; provenance trial (only); Queensland; Silviculture; tree breeding

Data measured:

dbh; height; survival

544

SUN, D. AND DICKINSON, G. R. 1997.

Survival and growth responses of a number of Australian tree species planted on a saline site in tropical north Australia*Journal of Applied Ecology* 32: 817-826

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Acacia; Acacia aulacocarpa; Acacia auriculiformis; agroforestry; Casuarina cristata; Casuarina cunninghamiana; Casuarina equisetifolia; Casuarina glauca; Eucalyptus alba; Eucalyptus camaldulensis; Eucalyptus tereticornis; Eucalyptus tessellaris; Fabaceae; Melaleuca bracteata; Melaleuca leucadendron; Melaleuca quinquenervia; multipurpose trees; Queensland; saline site; salinity comparison; salt tolerance; Silviculture; soil type; species/provenance comparison within silv. trial; tree breeding

Data measured:

DATA - soil salinity, soil chemical analysis (N, P, Na, Ca, K, Mg, conductivity, Cl, SO₄), tree crown diameter, branch and fork number per tree, leaf length, width and thickness, signs of salt burning on leaves; dbh; height; plant morphology; survival; tree form

545

SUN, D. AND DICKINSON, G. R. 1997.

The competition effect of *Brachiaria decumbens* on the early growth of direct-seeded trees of *Alphitonia petriei* in tropical north Australia*Biotropica* 28(2): 272-276

Publication type:	E	DataType:	GD
Stand Type:	DS NURS		

Keywords:

Alphitonia petriei; biomass - above-ground; biomass production; Brachiaria decumbens; establishment techniques; fencing; Queensland; rainforest tree species (native); seed treatment; Silviculture; weed competition

Data measured:

biomass; DATA - germination (glasshouse trial); calculated: mean relative growth rate; height

546

SUN, D. AND DICKINSON, G. R. 1997.

Early growth of six native Australian tree species in windbreaks and their effect on potato growth in tropical northern Australia

Forest Ecology and Management 95: 21-34

Publication type: E DataType: GD
Stand Type: PL - ALLEY

Keywords:

agroforestry; Callistemon; Callistemon salignus; Callistemon viminalis; crop - potato; Eucalyptus microcorys; Eucalyptus tessellaris; Eucalyptus torelliana; Melaleuca armillaris; Melaleuca linariifolia; mixed species; multipurpose trees; Queensland; Solanum tuberosum; Species trial (only); windbreak

Data measured:

DATA - tree crown length along windbreak row, number of branches, height to lowest branch, windbreak porosity, soil temperature, climatic parameters, soil chemical analysis (available N, P, and K, organic C and Cl), potato plant growth, potato harvest; dbh; height

547

SUN, D.; DICKINSON, G.; AND BRAGG, A. 1994.

The establishment of Eucalyptus camaldulensis on a tropical saline site in north Queensland, Australia.

Agriculture, Ecosystems and Environment 48: 1-8

Publication type: E DataType: GD
Stand Type: PL

Keywords:

establishment techniques; Eucalyptus camaldulensis; fertiliser - application or requirement; mulching; mulching - plastic; Queensland; saline site; salinity comparison; Silviculture; site comparison (within experiment); tree guard

Data measured:

DATA - soil salinity, pH, Pav, Na, K, Ca, Mg, Cond, Cl, SO₄, water content; height; plant height; plant production; survival

548

SUN, D.; DICKINSON, G. R.; AND BRAGG, A. L. 1997.

Effect of cattle grazing and seedling size on the establishment of *Araucaria cunninghamii* in a silvopastoral system in northeast Australia*Journal of Environmental Management* 49: 435-444

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

agroforestry; application timing; *Araucaria*; *Araucaria cunninghamii*; grazing; gymnosperm; hoop pine; planting stock; Queensland; rainforest tree species (native); site comparison (within experiment)

Data measured:

DATA - number of physically damaged trees, multistems; height; survival

549

SUN, D.; DICKINSON, G. R.; AND ROBSON, K. J. 1996.

Growth of *Eucalyptus pellita* and *E. urophylla* and effects on pasture production on the coastal lowlands of tropical northern Australia*Australian Forestry* 59(2): 136-141

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

agroforestry; *Brachiaria decumbens*; *Eucalyptus pellita*; *Eucalyptus urophylla*; pasture; Queensland; Species/provenance/clone/family trial (only)

Data measured:

DATA - bole length to first major fork, pasture species composition, height and biomass, tree canopy cover, soil chemical analysis (pH, EC, NO₃-N, SO₄-S, Cl, P-Bic, Na, K, Ca and ECEC); dbh; height; survival; tree form

550

TANG, S.; MENG, F. R.; MENG, C. H.; AND TANG SHOU, ZHENG 1995.

The impact of initial stand density and site index on maximum stand density index and self-thinning index in a stand self-thinning model*Forest Ecology and Management* 75(1-3): 61-68

Publication type:	G	DataType:	
Stand Type:	PL		

Keywords:

Asia; China; East Asia; *Eucalyptus regnans*; gymnosperm; *Larix olgensis*; MODEL; North Eastern China; Silviculture; site index; spacing; stand density; Victoria

551

TAYLOR, D. W.; DUNN, G. M.; AND NESTER, M. R. 1996.

Agroforestry in southern Queensland

In: Grodecki, A.; Aitchison, J. and Grimbeek, P. (eds.) *Managing and Growing Trees Training Conference, Bundaberg, 8-10 October 1996, Department of Natural Resources, Indooroopilly, Queensland, pp. 352-356*

Publication type: E DataType: GD
Stand Type: PL

Keywords:

agroforestry; Araucaria; Araucaria cunninghamii; Casuarina cunninghamiana; Eucalyptus camaldulensis; Eucalyptus cloeziana; Grevillea robusta; multipurpose trees; pasture; Queensland; rainforest tree species (native); Silviculture; spacing; species/provenance comparison within silv. trial

Data measured:

DATA - crown diameter, height to green crown, pasture production (biomass), pasture species composition; dbh; height

552

TEPPER, C. 1999.

Red gum plains forestry demonstration sites

Agroforestry News 8(2): 11

Publication type: G DataType:
Stand Type: demonstration/routine
management plot

Keywords:

Acacia; Eucalyptus globulus subsp. globulus; extension article; gymnosperm; hybrid; other tree species not listed; Pinus radiata; spacing; Species trial (only); species/provenance comparison within silv. trial; thinning; Victoria

553

THOMAS, S.; BOROUGH, C. 1997.

The Pinus halepensis-brutia complex

Australian Forest Grower 20(1): Special lifout section No. 39: 1-8

Publication type: G DataType: GD
GEN - Review, discussion or brief article
Stand Type: PL

Keywords:

agroforestry; extension article; gymnosperm; low rainfall site; New South Wales; Pinus; Pinus brutia; Pinus canariensis; Pinus eldarica; Pinus halepensis; Pinus pithyusa; Pinus radiata; Species/provenance/clone/family trial (only); wide-spaced trees

Data measured:

dbh; height

554

THOMPSON, W. A.; STOCKER, G. C.; AND KRIEDEMANN, P. E. 1988.

Growth and photosynthetic response to light and nutrients of *Flindersia brayleyana* F. Muell., a rainforest tree with broad tolerance to sun and shade

Australian Journal of Plant Physiology 15(1-2): 299-315

Publication type:	E	DataType:	GD
Stand Type:	NF		
	NURS		

Keywords:

Acacia; *Acacia aulacocarpa*; *Darlingia darlingiana*; fencing; *Flindersia*; *Flindersia brayleyana*; Laboratory or pen trial; nutrition - cycling or requirements or analysis; photosynthesis; physiology; Queensland; Queensland maple; rainforest tree species (native); red cedar; *Toona ciliata*

Data measured:

DATA - laboratory trial: germination, leaf gas exchange, H₂O and CO₂ flux, irradiance, photosynthesis-irradiance response curves, leaf area, plant dry weight, leaf chlorophyll, foliage N; height; survival

555

THOMSON, L. A. J. 1988.

Salt tolerance in *Eucalyptus camaldulensis* and related species

PhD thesis, University of Melbourne, 307 pp.

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Eucalyptus camaldulensis; *Eucalyptus rudis*; *Eucalyptus tereticornis*; foliar analysis; salt tolerance; species/provenance comparison within silv. trial; Species/provenance/clone/family trial (only); Victoria

Data measured:

DATA - plant new growth, leaf damage, disorders, mortality, foliage chemical analysis; diameter; height; survival

556

TILBROOK, E. 1998.

Effect of thinning on wood properties of 46 year-old plantation grown Gympie messmate (*E. cloeziana*)*Report to Queensland Forestry Research Institute, November 1998*

Publication type: E & W DataType: GD
 Stand Type: PL

Keywords:

Eucalyptus cloeziana; Queensland; Silviculture; thinning; wood density; wood properties

Data measured:

basal area; DATA - bole length; wood cores; sapwood area, basic density, extractives content, vessel number, diameter and area; dbh; height

557

TOMKINS, B. 2000.

Weed control and research activities - Notes from talk*In: Workshop on weed control in plantation forestry, University of Melbourne, School of Forestry, Creswick, 23-24 February 2000, Ed. Tomkins, Barry.*

Publication type: E DataType:
 Stand Type:

Keywords:

Azafenidin; Bracken; Brodal; Brush-Off; Corymbia; Corymbia maculata; Cut-Out; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus nitens; glyphosate; gymnosperm; Metsulfuron; Milestone; New South Wales; Pinus; Pinus radiata; primisulfuron; Pulse; Roundup; second rotation; Silviculture; species/provenance comparison within silv. trial; Trounce; understorey sampling; Victoria; weed control

558

TURNBULL, C. R. A.; BEADLE, C. L.; MCLEOD, R.; AND CHERRY, M. L. 1997.

Clearing with excavators and nitrogen fertiliser increases the yield of Eucalyptus nitens in plantations established on a native forest site in southern Tasmania*Australian Forestry 60: 109-115*

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

bulldozer; economics; equipment; establishment techniques; Eucalyptus nitens; excavator; fertiliser - application or requirement; fertilisers - nitrogen; Silviculture; site preparation; slash management; Tasmania; windrow

Data measured:

dbh; diameter; height; volume

559

TURNBULL, C. R. A.; BEADLE, C. L.; TRAILL, J. C.; AND RICHARDS, G. 1992.

Benefits, problems and costs of excavators and bulldozers used for clearing operations in southern Tasmania*Tasforests 4: 45-55*

Publication type: E DataType:

Stand Type:

Keywords:

bulldozer; economics; equipment; establishment techniques; Eucalyptus nitens; excavator; site comparison (within experiment); site index; site preparation; Tasmania; windrow

560

TURNBULL, C. R. A.; BEADLE, C. L.; WEST, P. W.; AND CROMER, R. N. 1994.

Copper deficiency a probable cause of stem deformity in fertilised Eucalyptus nitens*Canadian Journal of Forest Resources 24: 1434-1439*

Publication type: E DataType: GD

Stand Type: PL

Keywords:

application rate; copper deficiency; establishment techniques; Eucalyptus nitens; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; fertilisers - urea; foliar analysis; nutrient deficiencies (symptoms); nutrition - cycling or requirements or analysis; plant analysis; Silviculture; Tasmania; triple superphosphate

Data measured:

DATA - deformity index, proportion of prunable trees, foliage N, P, K, Ca, Mg, B, Mn, Cu, Zn, Fe, Al; dbh; survival

561

TURNBULL, C. R. A.; BEADLE, C. L.; WEST, P. W.; AND OTTENSCHLAEGER, M. L.

Effect of post-planting applications of granulated atrazine and fertiliser on the early growth of Eucalyptus nitens*New Forests 8(4): 323-333*

Publication type: E DataType: GD

Stand Type: PL

Keywords:

application method; application rate; atrazine; establishment techniques; Eucalyptus nitens; fertiliser - application or requirement; fertilisers - nitrogen - phosphorus - potassium; fertilisers - phosphorus; fertilisers - urea; herbicide; Silviculture; Tasmania; triple superphosphate; weed control; weed control - manual

Data measured:

DATA - proportional weed cover, mean relative height growth rate, variance; dbh; height; survival

562

TURNBULL, C. R. A.; MCLEOD, D. E.; BEADLE, C. L.; RATKOWSKY, D. A.; MUMMERY, D. C.; AND BIRD, T. 1993.

Comparative early growth of Eucalyptus species of the subgenera Monocalyptus and Symphyomyrtus in intensively-managed plantations in

Australian Forestry 56(3): 276-286

Publication type: E DataType: GD
Stand Type: PL

Keywords:

altitude; cold climate site; cold zones; Eucalyptus delegatensis; Eucalyptus globulus subsp. globulus; Eucalyptus grandis; Eucalyptus nitens; Eucalyptus pauciflora; Eucalyptus regnans; frost tolerance; Silviculture; site comparison (within experiment); Species/provenance/clone/family trial (only); Tasmania; water availability; waterlogging; wind damage

Data measured:

DATA - diameter and height increment; dbh; diameter; height; increment; survival

563

UMORU, BRAIMAH 1977.

The effect of fertilisation on the anatomical and chemical characteristics of Eucalyptus globulus and their influence on the resultant pulp and paper properties

M.Sc. Thesis, Department of Forestry, Australian National University, Canberra

Publication type: E DataType:
Stand Type:

Keywords:

Eucalyptus globulus; fertiliser - application or requirement; pulpwood production; Silviculture; wood anatomy; wood density; wood fibre; wood properties

Data measured:

DATA - wood fibre length, basic density, double wall thickness, lumen diameter, extractives content, lignin content

564

VAN DER MOEZEL, P. G.; WATSON, L. E.; PEARCE-PINTO, G. V. N.; AND BELL, D. T.

The response of six Eucalyptus species and Casuarina obesa to the combined effect of salinity and waterlogging

Australian Journal of Plant Physiology 15: 465-474

Publication type: E DataType:
Stand Type:

Keywords:

Casuarina obesa; saline site; species/provenance comparison within silv. trial; water stress; waterlogging; Western Australia

565

VENNING, J. 1984.

Preliminary assessment of 1983 revegetation trials. Supplement

Internal report, Department of Environment and Planning, Adelaide

Publication type: E DataType:
Stand Type:

Keywords:

Acacia; Acacia species; South Australia

566

VENNING, J. 1986.

1985 Revegetation trials

Internal report, Department of Environment and Planning, Adelaide

Publication type: E DataType:
Stand Type:

Keywords:

Acacia; Acacia species; South Australia

567

VENNING, J. 1988.

Growing trees for farms, parks and roadsides

Lothian Publishing Company, Melbourne

Publication type: E DataType: GD
GEN - Review, discussion or brief article
Stand Type: DS

Keywords:

Acacia; Acacia species; Allocasuarina verticillata; amitrole; atrazine; Avadex; Callistemon regulosus; Callitris species; Cassia species; cultivation; Dodonaea species; establishment techniques; Fusilade; herbicide; Melaleuca species; Roundup; scalping (grading to remove uppermost topsoil); Sertin; Silviculture; site preparation; South Australia; Treflan; Vorox AA

Data measured:

DATA - number of plants established, percent established (cf viable seeds sown)

568

VENNING, J. 1991.

Revegetation trials: 1982-86*Environment Division, Department of Environment and Planning, South Australia, February 1991*

Publication type:	E	DataType:	GD
Stand Type:	DS		
	NURS		

Keywords:

Acacia argyrophylla; Acacia colletioides; Acacia ligulata; Acacia menzelii; Acacia notabilis; Acacia oswaldii; Acacia paradoxa; Acacia pycnantha; Allocasuarina verticillata; ants; application rate; Avadex; burning; Callitris preissii; Cassia nemophila var. nemophila; Cassia nemophila var. platypoda; compacted soil; cultivation; Dodonaea stenozyga; Dodonaea viscosa; establishment techniques; Eucalyptus anceps; Eucalyptus camaldulensis; Eucalyptus gracilis; Eucalyptus leucoxylon; Eucalyptus odorata; Eucalyptus oleosa; Eucalyptus porosa; Eucalyptus rugosa; Eucalyptus socialis; Fusilade; glyphosate; Hardenbergia violacea; harrowing; herbicide; insect pests; land degradation; Melaleuca lanceolata; planting date; ploughing; regeneration - natural or self sown; ripping; Roundup; scalping (grading to remove uppermost topsoil); Seed pelleting; Sertin; site comparison (across experiments); site preparation; South Australia; species mix (direct seeding); species/provenance comparison within silv. trial; Treflan; Vorox AA; weed control; weed control - mechanical; Zygophyllum aurantiacum

Data measured:

DATA - number of plants established, percent established (cf viable seeds sown)

569

VENNING, J. AND CROFT, T. S. 1984.

Preliminary assessment of 1983 revegetation trials*Internal report, Department of Environment and Planning, Adelaide*

Publication type:	E	DataType:
Stand Type:	DS	

Keywords:

Acacia; Avadex; cultivation; site preparation; South Australia; Treflan; Vorox AA; wood - grading

570

VENNING, J. AND CROFT, T. S. 1985.

1984 Revegetation trials*Internal report, Department of Environment and Planning, Adelaide*

Publication type:	E	DataType:
Stand Type:		

Keywords:

Acacia; Acacia species; South Australia

571

VERTESSY, R.; CONNELL, L.; MORRIS, J.; SILBERSTEIN, R.; HEUPERMAN, A.; FEIKEMA, P.; MANN, L.; KOMARZYNSKI, M.; COLLOPY, J.; AND STACKPOLE, D.

Sustainable hardwood production in shallow watertable areas

Report for the RIRDC/LWRDC/FWPRDC Joint Venture Agroforestry Program, RIRDC, Canberra; Water and salinity issues in agroforestry No. 6. RIRDC publication No 00/163, RIRDC project No. CSI-3A

Publication type: P DataType: GD
Stand Type: PL

Keywords:

Eucalyptus camaldulensis; Eucalyptus grandis; groundwater table; MODEL; piezometer; plant water relations; root systems; saline site; sap flow; spacing; Victoria; water use

Data measured:

basal area; diameter

572

WALKER, G. AND SILBERSTEIN, R.; AND TREWHELLA, B. 2000.

Efficacy of non-irrigated plantations for salinity control in the riverine plains of the Murray-Darling Basin

In: George, B. H. (ed.) Commercial and environmental values of farm forestry in the Murray-Darling Basin irrigation areas. Proceedings of workshop held at Deniliquin, New South Wales, July 1999, Research and Development Division, State Forests of New South Wales, Technical Paper No. 65, pp. 49-59

Publication type: G DataType: GEN - Experiment design
Stand Type: PL

Keywords:

Eucalyptus botryoides; Eucalyptus camaldulensis; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus saligna; groundwater table; irrigation; saline site; Silviculture; spacing; species/provenance comparison within silv. trial; Victoria

Data measured:

DATA - stem carbon, salt storage, watertable depth; leaf area index (LAI)

573

WALLIS, J. 1997.

Sale field day - motto is: "Stick with it" (Gippsland Agroforestry Network)

Agroforestry News 6(4): 10-11

Publication type:	E	DataType:	GEN - Review, discussion or brief article
Stand Type:	demonstration/routine management plot PL		

Keywords:

Acacia; Acacia melanoxylon; Eucalyptus bosistoia; Eucalyptus elata; Eucalyptus globulus; Eucalyptus maculata; Eucalyptus muelleriana; Eucalyptus nitens; Eucalyptus regnans; gymnosperm; Pinus; Pinus radiata; Species trial (only); Victoria

574

WARD, S. C. AND KOCH, J. M. 1995.

Early growth of jarrah (*Eucalyptus marginata* Donn ex Smith) on rehabilitated bauxite minesites in south-west Australia

Australian Forestry 58(2): 65-71

Publication type:	E	DataType:	GD
Stand Type:	DS - Broadcast Sown DS - Mine Site Rehabilitation PL - MINE		

Keywords:

bauxite minesite; diammonium phosphate (DAP); Eucalyptus marginata; fertiliser - application or requirement; jarrah; mine site; Silviculture; site comparison (within experiment); spacing; species mix (direct seeding); superphosphate; Western Australia

Data measured:

DATA - seedling density, mortality rate, number per size class, growth stage score; height; tree form

575

WARD, S. C.; KOCH, J. M.; AND AINSWORTH, G. L. 1996.

The effect of timing of rehabilitation procedures on the establishment of a jarrah forest after bauxite mining*Restoration Ecology* 4(1): 19-24

Publication type:	E	DataType:
Stand Type:	DS - Mine Site Rehabilitation	

Keywords:

application date; cultivation; land rehabilitation (mine); mine site; planting date; ripping; seed treatment; Silviculture; site comparison (within experiment); soil type; species mix (direct seeding); substrate (mine); Western Australia

Data measured:

DATA - plant density, number of species/unit area, soil temperature

576

WARD, S. C.; PICKERSGILL, G. E.; MICHAELSEN, D. V.; AND BELL, D. T. 1985.

Responses to factorial combination of nitrogen, phosphorus and potassium fertilizers by sapling of *Eucalyptus saligna* Sm., and the prediction of the responses by DRIS indices*Australian Forest Research* 15: 27-32

Publication type:	E	DataType:	GD
Stand Type:	PL - MINE		

Keywords:

Eucalyptus saligna; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; fertilisers - potassium; mine site; nutrient deficiencies (symptoms); nutrition - cycling or requirements or analysis; Silviculture; Western Australia

Data measured:

DATA - tree foliage appearance; dbh; height

577

WARDLAW, T. J. AND NEILSEN, W. A. 1999.

Decay and other defects associated with pruned branches of *Eucalyptus nitens**Tasforests* 11: 49-57

Publication type:	E	DataType:
Stand Type:	PL	

Keywords:

decay; *Eucalyptus globulus*; *Eucalyptus nitens*; pruning; Silviculture; site comparison (within experiment); Tasmania; wood defects; wood properties

Data measured:

DATA - stem billets: diameter of branch stub, decay condition and extent, proportion of branches with decay, other defects

578

WARREN, J. D.; JOHNSTONE, R. C.; BRIGHT, T.; BURTON, W.; AND BOWER, R.

A Western Australian community foundation experience with farm forestry - two years down the track

In: Faces of Farm Forestry, Proceedings of Australian Forest Growers Conference, Launceston, Australian Forest Growers, pp. 141-147

Publication type:	G	DataType:	GEN - Project description
Stand Type:	demonstration/routine management plot PL		

Keywords:

Eucalyptus angustissima; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus horistes; Eucalyptus kochii spp. Kochii; Eucalyptus kochii spp. Plenissima; Eucalyptus polybractea; gymnosperm; mixed species; oil production; Pinus; Pinus pinaster; Pinus radiata; Species/provenance/clone/family trial (only); Western Australia

579

WARREN, J. F. 1964.

Condobolin tree and shrub establishment trial

Journal of the Soil Conservation Service N.S.W. 19(3): 162-7

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Acacia pendula; application timing; Callitris hugelii; Casuarina cristata; cultivation; establishment techniques; Eucalyptus camaldulensis; Eucalyptus flocktoniae; other tree species not listed; planting season; Silviculture; site preparation; Species trial (only); species/provenance comparison within silv. trial; treatment repetition

Data measured:

diameter; height; increment; survival

580

WASHUSEN, R. 1998.

Wood quality of plantation eucalypts from medium rainfall areas of the southern Murray - Darling Basin

Master of Wood Science , University of Melbourne

Publication type:	W	DataType:	
Stand Type:			

Keywords:

New South Wales; Victoria; wood properties

581

WASHUSEN, R. 1999.

Good prospects for drier-country eucalypt plantings*OnWood* 23: 5

Publication type:	G	DataType:	GEN - Review, discussion or brief article
Stand Type:	demonstration/routine management plot PL		

Keywords:

decay; drying degrade; Eucalyptus cladocalyx; Eucalyptus globulus subsp. globulus; Eucalyptus maculata; Eucalyptus sideroxylon ssp. sideroxylon; extension article; knots; low rainfall site; New South Wales; products; sawlogs; solid wood; Victoria; wood drying; wood properties

Data measured:

DATA - drying degrade, recovery of graded timber, outer heartwood shrinkage, surface checking, knots

582

WASHUSEN, R. 2000.

Value added opportunities for medium-low rainfall areas*Agroforestry News* 9(2): 10-11

Publication type:	E	DataType:
Stand Type:		

Keywords:

Corymbia maculata; Eucalyptus cladocalyx; Eucalyptus globulus; Eucalyptus sideroxylon; extension article; low rainfall site; New South Wales; Victoria

583

WASHUSEN, R. AND WAUGH, G 2000.

Opportunities for solid wood products from low-rainfall plantation-grown eucalypts

In: IUFRO conference proceedings: The future of eucalypts for wood products, Country Club Casino, Launceston, Tasmania, Australia, 19-24 March 2000, pp. 310-317

Publication type:	W	DataType:
Stand Type:	demonstration/routine management plot PL	

Keywords:

Corymbia maculata; decay; drying degrade; Eucalyptus cladocalyx; Eucalyptus globulus subsp. globulus; Eucalyptus sideroxylon ssp. sideroxylon; knots; low rainfall site; New South Wales; products; sawlogs; solid wood; Victoria; wood drying; wood properties

Data measured:

DATA - recovery of graded wood, green and dead knots, drying degrade, wood density, strength, shrinkage, final processing (machining, gluing, furniture finishes)

584

WASHUSEN, R.; WAUGH, G.; AND HUDSON, I. 1998.

Wood products from low-rainfall farm forestry

Report to Forest and Wood Products Research and Development Corporation, No. PN0007.96, 78 pp.

Publication type:	E & W	DataType:
Stand Type:	demonstration/routine management plot	PL

Keywords:

Corymbia maculata; Eucalyptus cladocalyx; Eucalyptus globulus; Eucalyptus maculata; Eucalyptus sideroxylon; Eucalyptus sideroxylon ssp. sideroxylon; low rainfall site; products; wood properties

585

WAUGH, G. 1977.

Reducing growth stress in standing trees

Australian Forest Research 7(4): 215-218

Publication type:	E & W	DataType:
Stand Type:		

Keywords:

2,4,5 T; Eucalyptus regnans; growth stress; herbicide; wood properties

586

WEBB, M. J. 2000.

Tropical cabinet timber trees - Demonstration of the potential effects of nursery nutrients

Report for RIRDC/LWRDC/FWPRDC Joint Venture Agroforestry Program (in review)

Publication type:	E	DataType:
Stand Type:		

Keywords:

Acacia; Acacia aulacocarpa; Acacia mangium; Agathis robusta; Alphitonia petriei; application method; application rate; Elaeocarpus angustifolius; Eucalyptus cloeziana; Eucalyptus pellita; fertiliser - application or requirement; Flindersia; Flindersia brayleyana; Grevillea baileyana; kauri; Melicope elleryana; Nauclea orientalis; nursery practice; outplanting; planting stock; Queensland; Queensland maple; rainforest tree species (native); site comparison (within experiment); soil type

Data measured:

DATA - leaf N, P, K, S, Ca, Mg, Cu, Zn, Mn, Fe, B; chlorophyll, chlorophyll fluorescence ratio, nursery dry weight

587

WEBB, M. J.; REDDELL, P.; HAMBLETON, A.; AND MAZZA, G. M. 1997.

Nutritional constraints to growth of Australian red cedar (*Toona ciliata*) seedlings in five north Queensland soils*Australian Forestry* 60(1): 46-52

Publication type:	E	DataType:
Stand Type:	NURS	

Keywords:

fertiliser - application or requirement; fertilisers - calcium; fertilisers - magnesium; fertilisers - nitrogen; fertilisers - NPKS; fertilisers - phosphorus; fertilisers - potassium; lime; nutrition - cycling or requirements or analysis; Queensland; rainforest tree species (native); red cedar; soil analysis; soil type; *Toona ciliata*

Data measured:

DATA - seedling dry weight, soil analysis (P, N, C and micronutrient)

588

WEBB, M. J.; REDDELL, P.; HAMBLETON, A.; AND ROBSON, K. 2000.

Growth response of four tropical plantation timber species to increasing phosphorus supply and assessment of phosphorus requirements using foliar analysis*New Forests* 20: 193-211

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Agathis robusta; application rate; black bean; *Castanospermum australe*; *Cedrela odorata*; fertiliser - application or requirement; fertilisers - phosphorus; *Flindersia*; *Flindersia brayleyana*; foliar analysis; Queensland; rainforest tree species (native); species/provenance comparison within silv. trial; superphosphate

Data measured:

DATA - volume index, foliage N, P, K, Ca, Mg, S, Fe, Mn, Zn, Cu, B, Al, Na; dbh; height

589

WEBB, M.; REDDELL, P.; PAUKU, R.; AND POULI, T. 2000.

Inadequate nutrition: A major (and often unrecognised) limitation to tree growth in the humid tropics of North Queensland and the South Western

In: Snell, A. and Vize, S. (eds.) Proceedings of the Australian Forest Growers conference, "Opportunities for the New Millennium", Cairns Convention Centre, 4-6 September 2000, pp. 256-260

Publication type:	G	DataType:	GD GEN - Project description
Stand Type:	NURS PL		

Keywords:

Agathis robusta; application method; Cedrela odorata; Eucalyptus cloeziana; fertiliser - application or requirement; Gmelina; Gmelina arborea; kauri; nursery practice; nutrient deficiencies (symptoms); nutrition - cycling or requirements or analysis; planting stock; Queensland; Rainforest tree species (native); red cedar; Silviculture; soil analysis; Solomon Islands; Swietenia macrophylla; Toona ciliata

Data measured:

DATA - soil nutrient deficiency (P, N, K, Zn, Cu, B, Mo), volume index, seedling dry weight, nutrient deficiency diagnosis methods (visual, spectral reflectance, sap tests, bark content); height

590

WEBB, R.; BIRD, R.; JACKSON, T.; MEASKI, B.; AND WATERS, M. 2000.

River she-oak provenance research in south west Victoria

Agroforestry News 9(3): 12-13

Publication type:	E	DataType:	GD
Stand Type:	PL		

Keywords:

Casuarina cunninghamiana; establishment techniques; extension article; fertiliser - application or requirement; hare; pest control; Pivot 800; plantation pests; ripping; Silviculture; site comparison (within experiment); site preparation; species/provenance comparison within silv. trial; tree guard; vertebrate control; vertebrate pests; Victoria

Data measured:

DATA - stem straightness, branch thickness, presence of forking; dbh; height; survival

591

WEBB, R.; JACKSON, T.; BIRD, R.; AND MEASKI, B. 2000.

Drooping she-oak provenance research in south west Victoria

Agroforestry News 9(3): 24-25

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Allocauarina verticillata; Casuarina stricta; establishment techniques; extension article; fertiliser - application or requirement; pest control; Pivot 800; plantation pests; rabbit; ripping; Silviculture; site comparison (within experiment); site preparation; species/provenance comparison within silv. trial; tree guard; vertebrate control; vertebrate pests; Victoria; wallaby

Data measured:

DATA - stem straightness, branch thickness, presence of forking; dbh; height; survival

592

WENTWORTH, S. M.; APPLETON, R.; HESCOCK, R. L.; AND WHITEMAN, P. H. 2000.

Status of Australian Paper Plantations silvicultural research in Gippsland, Victoria

Report by Australian Paper Plantations to Research Working Group 5, Biennial business meeting, 1-2 May 2000, Gympie, Queensland

Publication type: G DataType: GD
GEN - Project description
Stand Type: PL

Keywords:

application method; bare rooted stock; cultivation; establishment techniques; Eucalyptus globulus; fertiliser - application or requirement; gymnosperm; later age fertiliser; mammal browsing; mounding; pest control; Pinus; Pinus radiata; plantation pests; planting stock; pruning; repellents; sand; Silviculture; site preparation; soil type; spacing; stand density; vertebrate control; vertebrate pests; Victoria; weed control

Data measured:

DATA - basal area increment, volume increment; volume

593

WEST, D. J. AND GERITZ, A. F.; AND THORBURN, P. J. 1987.

Revegetation of a dryland salting outbreak: Progress report

In: Landscape, soil and water salinity. Proceedings of the Brisbane regional workshop, Brisbane, May 1987, Queensland Department of Primary Industries Publication QC87003, Queensland Department of Primary Industries, Brisbane, pp. B5-1 to B5-10

Publication type: E DataType:
Stand Type:

Keywords:

Queensland; saline site

594

WESTON, C. J. 1991.

Factors limiting the growth of eucalypts across a range of sites in Gippsland, Victoria

In: Ryan, P. J. (ed.) Third Australian Forest Soils and Nutrition Conference, "Productivity in Perspective", 7-11 October 1991, Melbourne, Forestry Commission of NSW, Sydney, pp.158-159

Publication type: E DataType: GD
Stand Type: PL

Keywords:

establishment techniques; Eucalyptus globulus; Eucalyptus nitens; fertiliser - application or requirement; fertilisers - nitrogen - phosphorus - potassium; Silviculture; site comparison (within experiment); soil type; Victoria

Data measured:

DATA - diameter growth rate (2-3 weekd intervals); dbh; diameter

595

WESTON, C. J.; ATTIWILL, P. M.; AND CAMERON, J. N. 1991.

Growth and nutrition of eucalypt plantations in relation to soil type and former land use in Gippsland, Victoria

In: Schonau, A. P. G. (ed.) Intensive Forestry: the role of eucalypts. IUFRO Symposium, South African Institute of Forestry, pp. 480-491

Publication type: E DataType:
Stand Type:

Keywords:

fertiliser - application or requirement; nutrition - cycling or requirements or analysis; previous land use (effect of); soil type; Victoria

596

WHITE, D. A. 1996.

Physiological responses to drought of Eucalyptus globulus and Eucalyptus nitens in plantations

PhD Thesis, University of Tasmania, 166 pp.

Publication type: P DataType:
Stand Type: PL

Keywords:

canopy conductance; Eucalyptus globulus; Eucalyptus nitens; irrigation; irrigation - rainfed treatment; physiology; plant water relations; Silviculture; site comparison (within experiment); species/provenance comparison within silv. trial; Tasmania; water stress; water use

Data measured:

DATA - soil water deficit, soil moisture, wind speed, RH, air temperature, vapour pressure deficit, evaporation, LAI, leaf area, stomatal conductance, canopy conductance, pre-dawn leaf water potential, pressure-volume curves, fresh weight

597

WHITE, D. A. 2000.

Tree belts show their worth*OnWood* 13: 3

Publication type:	G	DataType:
Stand Type:	PL - ALLEY	

Keywords:

alley belt (timberbelt); extension article; mixed species; plant water relations; saline site; species comparison (general); stand design; water use; waterlogging; Western Australia

Data measured:

DATA - water uptake, rainfall interception, evaporation

598

WHITE, D. A.; BEADLE, C. L.; HONEYSETT, J. L.; AND WORLEDGE, D. 1994.

Stomatal conductance of *Eucalyptus globulus* and *E. nitens* in irrigated and rainfed plantations

In: Australian tree species research in China. Proceedings of the International Workshop on MOF/ACIAR Forestry Projects 1992, Zhanghou, Fujian Province, P. R. China., p. 56

Publication type:	P	DataType:
Stand Type:	PL	

Keywords:

Eucalyptus globulus; *Eucalyptus nitens*; irrigation; irrigation - rainfed treatment; physiology; plant water relations; species/provenance comparison within silv. trial; Tasmania; water use

599

WHITE, D. A.; BEADLE, C. L.; HONEYSETT, J. L.; AND WORLEDGE, D. 1994.

The effect of drought stress on height, diameter, and leaf area index of *Eucalyptus globulus* and *E. nitens*

In: Australian tree species research in China. Proceedings of the International Workshop on MOF/ACIAR Forestry Projects 1992, Zhanghou, Fujian Province, P. R. China; p. 71

Publication type:	E	DataType:
Stand Type:	PL	

Keywords:

Eucalyptus globulus; *Eucalyptus nitens*; irrigation; species/provenance comparison within silv. trial; Tasmania

Data measured:

diameter; height; leaf area index (LAI)

600

WHITE, D. A.; BEADLE, C. L.; SANDS, P. J.; WORLEDGE, D.; AND HONEYSETT, J. L.

Quantifying the effect of cumulative water stress on stomatal conductance of *Eucalyptus globulus* and *Eucalyptus nitens*: a phenomenological approach

Australian Journal of Plant Physiology 26: 17-27

Publication type: P DataType:
Stand Type:

Keywords:

Eucalyptus globulus; *Eucalyptus nitens*; evapotranspiration; irrigation; irrigation - fresh water; irrigation - rainfed treatment; low rainfall site; MODEL; physiology; plant water relations; Silviculture; Tasmania; water availability; water stress; water use

Data measured:

DATA - predawn leaf water potential, pressure volume analysis, soil water deficit, leaf area, wind speed, humidity, air temperature, vapour pressure deficit; calculated: osmotic potential, relative water content; leaf area

601

WHITE, D. A.; BEADLE C. L. ; AND WORLEDGE D. 1996.

Leaf water relations of *Eucalyptus globulus* ssp. *globulus* and *E. nitens*: seasonal, drought and species effects

Tree Physiology 16: 469-476

Publication type: P DataType:
Stand Type:

Keywords:

Eucalyptus globulus subsp. *globulus*; *Eucalyptus nitens*; irrigation; irrigation - fresh water; irrigation - rainfed treatment; low rainfall site; physiology; plant water relations; Silviculture; species/provenance comparison within silv. trial; Tasmania; water stress; water use

Data measured:

DATA - predawn leaf water potential, pressure volume analysis, soil water deficit, leaf area, wind speed, humidity, air temperature, vapour pressure deficit; calculated: osmotic potential, relative water content

602

WHITE, D. A.; BEADLE, C. L.; AND WORLEDGE, D. 2000.

Control of transpiration in an irrigated *Eucalyptus globulus* Labill. plantation

Plant, Cell and Environment 23: 123-134

Publication type: M DataType:
Stand Type: PL

Keywords:

Eucalyptus globulus; irrigation; low rainfall site; MODEL; physiology; Tasmania; transpiration

Data measured:

basal area; DATA - soil water content, crown depth, wind speed, RH, air temperature, vapour pressure deficit, leaf area, specific leaf area, leaf dry weight, sap flow (in 3 canopy layers), stomatal conductance; height

603

WHITE, D. A.; BEADLE, C. L.; WORLEDGE, D. ; HONEYSETT, J. L.; AND CHERRY, M.

The influence of drought on the relationship between leaf and conducting sapwood area in *Eucalyptus globulus* and *Eucalyptus nitens*

Trees: Structure and Function 12: 406-414

Publication type: P DataType:
Stand Type: PL

Keywords:

drought tolerance; *Eucalyptus globulus*; *Eucalyptus nitens*; irrigation; irrigation - fresh water; irrigation - rainfed treatment; physiology; plant water relations; Silviculture; species/provenance comparison within silv. trial; Tasmania; water stress

Data measured:

DATA - soil water content, predawn water potential, leaf area, specific leaf area, leaf dry weight, sapwood area

604

WHITE, D. A.; RAYMOND, C. A.; KILE, G. A.; AND HALL, M. F. 1999.

Are there genetic differences in susceptibility of *Eucalyptus nitens* and *E. regnans* stems to defect and decay?

Australian Forestry 62(4): 368-374

Publication type: E & W DataType: GD
Stand Type: PL

Keywords:

artificial wounding; decay; establishment techniques; *Eucalyptus nitens*; *Eucalyptus regnans*; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; phosphorus nitrogen ratio; provenance trial (only); Silviculture; site comparison (within experiment); species/provenance comparison within silv. trial; Species/provenance/clone/family trial (only); Tasmania; Victoria; wood defects; wood properties

Data measured:

DATA - crosscut wood samples, extent of discolouration and decay (longitudinal spread and area), height to crown break or first major green branch, number and length of kino veins, heritability and genetic correlation for discolouration spread and area; dbh; height

605

WHITE, D. A.; TURNER, N. C.; AND GALBRAITH, J. H. 2000.

Leaf water relations and stomatal behavior of four allopatric *Eucalyptus* species planted in Mediterranean southwestern Australia

Tree Physiology 20(17): 1157-1165

Publication type: P DataType:
Stand Type:

Keywords:

agroforestry; alley belt (timberbelt); *Eucalyptus camaldulensis*; *Eucalyptus leucoxylon*; *Eucalyptus platypus*; *Eucalyptus saligna*; low rainfall site; physiology; plant water relations; saline site; water use; Western Australia

Data measured:

DATA - pre-dawn leaf water potential, stomatal conductance, osmotic potential, pressure-volume curves, leaf fresh weight, turgor pressure; elastic adjustment

608

WILDY, D. T. ; BARTLE, J. R.; AND PATE, J. S. 2000.

Sapling and coppice biomass production by alley-farmed 'oil mallee' Eucalyptus species in the Western Australian wheatbelt*Australian Forestry* 63(2): 147-157

Publication type: E DataType: GD
 Stand Type: PL

Keywords:

agroforestry; alley belt (timberbelt); biomass - above-ground; biomass production; cold tolerance; coppice; cutting management; Eucalyptus angustissima subsp. angustissima; Eucalyptus gratiae; Eucalyptus horistes; Eucalyptus kochii; Eucalyptus kochii subsp. kochii; Eucalyptus kochii subsp. plenissima; Eucalyptus loxophleba subsp. lissophloia; Eucalyptus polybractea; Eucalyptus vegrandis; harvest timing; oil mallee; saline site; site comparison (within experiment); water availability; Western Australia

Data measured:

biomass; DATA - soil pH, conductivity, total N, P, K, S, Fe, organic C, moisture content, subsoil analysis, evaporation, depth to water table, depth to water table and root impedance, above ground biomass (dry weight), rleaf:wood ratio; survival

609

WILDY, D. T.; PATE, J. S.; AND BARTLE, J. R. 2000.

Variations in composition and yield of leaf oils from alley-farmed oil mallees (Eucalyptus spp.) at a range of contrasting sites in the Western Australian wheatbelt*Forest Ecology and Management* 134: 205-217

Publication type: P DataType:
 Stand Type: PL - ALLEY

Keywords:

agroforestry; alley belt (timberbelt); biomass production; blue mallee; coppice; cutting management; Eucalyptus angustissima subsp. angustissima; Eucalyptus gratiae; Eucalyptus horistes; Eucalyptus kochii spp. Kochii; Eucalyptus kochii spp. Plenissima; Eucalyptus loxophleba subsp. lissophloia; Eucalyptus polybractea; Eucalyptus vegrandis; harvest timing; low rainfall site; oil content; oil mallee; oil production; plant composition; provenance trial (only); Silviculture; site comparison (within experiment); species comparison; species/provenance comparison within silv. trial; Western Australia

Data measured:

DATA - foliage water and oil vapours, relative abundances of principle compounds, leaf cineole concentration, biomass (leaf, twig and wood)

610

WILKINS, A. P. 1989.

Implications of silviculturally induced variation of wood density and heartwood formation in *Eucalyptus grandis* (Hill) Maiden*In: Second Pacific Regional Wood Anatomy Conference, October 15-21, 1989, College, Laguna, Philippines [convened by Tesoro, F.O.]. Abstracts of papers and posters. IAWA Bulletin. 10: 3,*

Publication type:	E & W	DataType:
Stand Type:	PL	

Keywords:

cultivation; dimethoate; establishment techniques; *Eucalyptus grandis*; fertiliser - application or requirement; heartwood; insecticide; malathion; Metasystox; New South Wales; Nuvacron; Rogor; Silviculture; site preparation; thinning; weed control; wood density; wood properties

Data measured:

DATA - basic density (at 3 sample heights), extractives, bark thickness, heartwood diameter, log volume

611

WILKINS, A. P. 1990.

Influence of silvicultural treatment on growth and wood density of *Eucalyptus grandis* grown on a previous pasture site*Australian Forestry 53: 168-172*

Publication type:	E & W	DataType:	GD
Stand Type:	PL		

Keywords:

ammonium fertilisers; ammonium phosphate; *Eucalyptus grandis*; fertiliser - application or requirement; fertilisers - NPKS; glyphosate; herbicide; insecticide; malathion; New South Wales; organophosphorus herbicides; organothiophosphate insecticides; pest control; pesticides; Roundup; Silviculture; weed control; wood density; wood properties

Data measured:

DATA - diameter at butt 25 and 50 percent height, wood basic density; diameter

612

WILKINS, A. P. 1991.

Sapwood, heartwood and bark thickness of silviculturally treated *Eucalyptus grandis*

Wood Science and Technology 25(6): 415-423

Publication type: W DataType:
Stand Type: PL

Keywords:

chemical treatment; cultivation; demeton S methyl; dimethoate; establishment techniques; *Eucalyptus grandis*; fertiliser - application or requirement; fertilisers - NPKS; glyphosate; herbicide; insecticide; malathion; Metasystox; Monocrotophos; New South Wales; Nuvacron; organophosphate insecticides; organophosphorus herbicides; organothiophosphate insecticides; pest control; Propazine; Rogor; Silviculture; stem injection; thinning; weed control; wood anatomy; wood properties

613

WILKINS, A. P. 1991.

Effect of silvicultural treatment on the growth and wood properties of *Eucalyptus grandis*

Doctor of Philosophy, Macquarie University

Publication type: E & W DataType:
Stand Type:

Keywords:

Eucalyptus grandis; New South Wales; wood properties

614

WILKINS, A. P. AND HORNE, R. 1991.

Wood-density variation of young plantation-grown *Eucalyptus grandis* in response to silvicultural treatments

Forest Ecology and Management 40(1-2): 39-50

Publication type: E & W DataType:
Stand Type:

Keywords:

Eucalyptus grandis; fertiliser - application or requirement; New South Wales; pest control; products; Silviculture; thinning; weed control; wood density; wood properties

615

WILKINS, A. P. AND KITAHARA, R. 1991.

Silvicultural treatments and associated growth rates, growth strains and wood properties in 12.5-year-old *Eucalyptus grandis*.

Australian Forestry 54(1&2): 99-104

Publication type: E & W DataType: GD
Stand Type: PL

Keywords:

ammonium fertilisers; demeton S methyl; establishment techniques; *Eucalyptus grandis*; fertiliser - application or requirement; fertilisers - NPKS; glyphosate; growth stress; herbicide; insecticide; malathion; Metasystox; Monocrotophos; New South Wales; Nuvacron; organophosphate insecticides; organophosphorus herbicides; organothiophosphate insecticides; pest control; pesticides; Propazine; Roundup; Silviculture; thinning; weed control; weed control - manual; wood density; wood properties

Data measured:

DATA - growth strain - longitudinal, tangential, fibre length, vessel diameter, ray width, basic density; dbh

616

WILKINS, A. P. AND KITAHARA, R. 1991.

Relationship between growth strain and rate of growth in 22 year-old *Eucalyptus grandis*

Australian Forestry 54(1&2): 95-98

Publication type: E & W DataType:
Stand Type:

Keywords:

Eucalyptus grandis; growth stress; products; wood properties

617

WILKINS, A. P. AND STAMP, C. M. 1990.

Relationship between wood colour, silvicultural treatment and rate of growth in *Eucalyptus grandis* Hill (Maiden)

Wood Science and Technology 24(4): 297-304

Publication type: E & W DataType:
Stand Type:

Keywords:

cultivation; *Eucalyptus grandis*; fertiliser - application or requirement; insecticide; New South Wales; Silviculture; thinning; weed control; wood colour; wood properties

618

WILKINSON, G. R. AND NEILSEN, W. A. 1990.

Effect of herbicides on woody weed control and growth of plantation eucalypt seedlings

Australian Forestry 53(2): 69-78

Publication type: E DataType: GD
Stand Type: PL

Keywords:

amitrole; atrazine; bare rooted stock; chemical treatment; clopyralid; container grown plants; establishment techniques; Eucalyptus nitens; Eucalyptus regnans; Gesaprim / 80; Gesatop / 80/ 500 FW; glyphosate; herbicide; Lontrel L; planting stock; post-plant herbicide application; pre-plant herbicide application; Roundup; Silviculture; simazine; species/provenance comparison within silv. trial; Tasmania; weed control; weed species - general list; Weedazol TL Plus

Data measured:

DATA - percent weed cover; height; survival

619

WILSON, J. R. 1998.

Influence of planting four tree species on the yield and soil water status of green panic pasture in subhumid south-east Queensland

Tropical Grasslands 32: 209-220

Publication type: E DataType: GD
Stand Type: PL

Keywords:

Acacia; Acacia stenophylla; agroforestry; Albizia; Albizia lebbeck; Eucalyptus argophloia; Leucaena; Leucaena diversifolia; low rainfall site; multipurpose trees; Panicum maximum var. trichoglume; pasture; Queensland; species/provenance comparison within silv. trial; tree guard

Data measured:

DATA - pasture (yield, N analysis, species composition, proportion of green leaf, stem and dead material), photosynthetic active radiation (PAR), soil water potential, number of vertically orientated branches at 1.3 m; dbh; height

620

WILSON, J. R.; HILL, K.; CAMERON, D. M.; AND SHELTON, H. M. 1990.

The growth of *Paspalum notatum* under the shade of a *Eucalyptus grandis* plantation canopy or in full sun*Tropical Grasslands* 24: 24-28

Publication type: O DataType:

Stand Type:

Keywords:agroforestry; *Eucalyptus grandis*; *Paspalum notatum*; pasture; Queensland; wide-spaced trees**Data measured:**DATA - pasture (*P. notatum*) dry weight (green leaf, stem, dead material, weeds), nutrient analysis (N, P and K), photosynthetic active radiation

621

WIRTHENSOHN, M. G. AND SEDGLEY, M. 1998.

Effect of pruning on regrowth of cut foliage stems of seventeen *Eucalyptus* species*Australian Journal of Experimental Agriculture* 38: 631-6

Publication type: E DataType: GD

Stand Type: PL

Keywords:application timing; coppice; cut foliage; cutting management; *Eucalyptus albens*; *Eucalyptus brachyphylla*; *Eucalyptus brevifolia*; *Eucalyptus bridgesiana*; *Eucalyptus cinerea*; *Eucalyptus cordata*; *Eucalyptus crucis*; *Eucalyptus delegatensis*; *Eucalyptus globulus*; *Eucalyptus gunnii*; *Eucalyptus kruseana*; *Eucalyptus macrocarpa*; *Eucalyptus orbifolia*; *Eucalyptus pruinosa*; *Eucalyptus pulverulenta*; *Eucalyptus socialis*; *Eucalyptus tetragona*; irrigation; non-wood products; pruning; pruning method; Silviculture; South Australia; species/provenance comparison within silv. trial**Data measured:**

DATA - diameter of lignotuber, juvenile leaves (colour of fully expanded, shape), leaf glaucousness, phyllotaxy, stem (shape, waxiness at juvenile stage), age at phase change to intermediate or adult leaves, flowering time, number and wt of stems; diameter; height

622

WISNIEWSKI, R. L. 1996.

An evaluation of the potential for growing *Melaleuca uncinata* (broombush) on farms for brush fence production*PhD thesis, University of Melbourne*

Publication type: E DataType:

Stand Type:

Keywords:agroforestry; broombush; *Melaleuca uncinata*

623

WONG, J.; BAKER, T.; DUNCAN, M.; MCGUIRE, D.; AND BULMAN, P. 2000.

Forecasting growth of key agroforestry species in south-eastern Australia

A report for the RIRDC/LWRRDC/FWPRDC joint Venture Agroforestry Program; RIRDC publication No 00/68, RIRDC project DAV-129A

Publication type:	E	DataType:	GD
Stand Type:	demonstration/routine management plot PL		

Keywords:

Eucalyptus botryoides; Eucalyptus globulus; Eucalyptus grandis; Eucalyptus nitens; Eucalyptus saligna; Eucalyptus viminalis; low rainfall site; MODEL; sand; site comparison (across experiments); site index; soil type; South Australia; Species trial (only); Species/provenance/clone/family trial (only); Victoria

Data measured:

basal area; height; survival; volume

624

WORLEDGE, D; HONEYSETT, J L; WHITE, D A; BEADLE, C L; AND HETHERINGTON, S J 1998.

Scheduling irrigation in plantations of Eucalptus globulus and E. nitens: A practical guide

Tasforests 10: 91-101

Publication type:	P	DataType:	GD
Stand Type:	PL		

Keywords:

Eucalyptus globulus; Eucalyptus nitens; irrigation; low rainfall site; MODEL; Tasmania

Data measured:

basal area; DATA - evaporation, rainfall, soil water content, CAI, MAI; calculated: soil water deficit, evapotranspiration; dbh; height

625

YANG, Y. 1994.

Effect of phosphorus nutrition on nodulation and nitrogen fixation in Casuarina cunninghamiana Miq. Yun Yang

PhD thesis, James Cook University

Publication type:	B	DataType:	
Stand Type:	NURS		

Keywords:

Casuarina cunninghamiana; fertiliser - application or requirement; fertilisers - nitrogen; fertilisers - phosphorus; nodulation; nutrition - cycling or requirements or analysis

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4. Keyword Definitions

<i>KEYWORD</i>	<i>Description</i>
2,2-DPA	herbicide. =active constituent. Type =aliphatic acid. Oral 7570 mg/kg Dermal>2000
2,4,5 T	herbicide. =active constituent. Type=phenoxy. Either butoxy, butyl or iso-octyl
2,4-D	herbicide. Several forms =active constituent. Type=phenoxy
2,4-D Amine	herbicide. 2,4-D as an amine salt. Type= phenoxy. Oral 370 mg/kg
2,4-DB	herbicide. 2,4-D as the potassium and sodium salts. Type=phenoxy. Oral 700 mg/kg.
Acacicola orphana	fireblight beetle
Acifluorfen	herbicide. =active constituent. type=diphenyl ether. Oral LD50=3700 mg/kg
Agral 60 / 70	surfactant
Agran 34-0	fertiliser a.i. NH4NO3
Agras	compound nitrogen and phosphorous fertiliser
Agriform	fertiliser
Agripon	herbicide (wetable powder) a.i. dalapon (2,2-DPA)
agroforestry	Trial has land use apart from timber production. Includes tree/pasture trials, eucalypt oil production and land rehabilitation plantings, e.g. saline site
Agrol	wetting agent
Alloxydim	chemical =active constituent. type=oxime. Oral 2322 mg/kg dermal 5000
Ally	herbicide a.i. metsulfuron
Ametridione	Superseded herbicide. Type=triazine
amitrole	herbicide. =active constituent. Type=triazole Oral>1100 mg/kg. Dermal 10000
Amorbus obscuricornis	sap sucking coreid bug
Anoplognathus chloropyrus	Christmas beetle
Anoplognathus porosis	Christmas beetle
application rate	Trial which compares different amounts of a treatment
application timing	Trial which compares time of application of treatment
Aquasol	nursery soluble fertiliser
Arctotheca calendula	capeweed
Armillaria luteobubalina	pathogen of karra-marri forests and in south eastern Australia
Arsenal	herbicide a.i. flamprop-methyl
Arsenal	herbicide

<i>KEYWORD</i>	<i>Description</i>
atrazine	herbicide. =active constituent. Type=triazine. Oral 1869 mg/kg
Authority	herbicide
Avadex	chemical
Azadirachta indica	neem
Azafenidin	herbicide
Balance	herbicide
Basta	herbicide a.i. glufosinate
black bean	Castanospermum australe
Bladex	herbicide a.i. cyanazine
Blazer	herbicide a.i. aciflourifen
Blood and bone	fertiliser
blue mallee	Eucalyptus polybractea
Boost Crop	compound nitrogen and phosphorous fertiliser
Bravo	fungicide a.i. chlorothalonil
Broadstrike	herbicide a.i. flumetsulam
Brodal	herbicide a.i. diflufenican
Bromoxypil	chemical
Brush-Off	herbicide
burning	Site preparation trial which includes burning site prior to planting
Buster	herbicide a. i. glufosinate
Buthidazole	chemical
Canavalia maritima	coastal jack bean
Caragard 500 FW	herbicide (flowable) a.i. terbuthylazine/terbumeton
Caragard Combi	herbicide (flowable) a.i. terbuthylazine/terbumeton
carbaryl (insecticide)	insecticide. =active constituent. Type=carbamate. Oral 500 mg/kg Dermal 4000 mg/kg Form Dust
Carbene	insecticide a.i. carbaryl
carbosulfan	insecticide
Cardiaspina	pysllid
Cardiaspina albitextura	pysllid
Cardiaspina fiscella	pysllid
Cardiaspina maniformis	pysllid
Cardiaspina retator	pysllid
Cardwellia sublimis	northern silky oak

<i>KEYWORD</i>	<i>Description</i>
Casoron G	herbicide (granular) a.i. dichlobenil
Castanospermum australe	black bean
Chlorsulfuron	herbicide. =active constituent. Type=sulphonylurea. Oral 5545 mg/kg
chlorthal	herbicide. =active constituent. Type=benzoic acid. Oral 3000 mg/kg. Dermal 10000
chlorthiamid	Chem. =active constituent. Type=substituted amine Oral 757 mg/kg
cineole	oil
clopyralid	herbicide. =active constituent. Type=pyridine Oral >4300. Dermal 2000
Colemanite	fertiliser
Command	herbicide
Confos	chemical
couch	Cyandon dactylon
cover crop	crop planted to cover soil to exclude weeds/provide nitrogen, e.g. legume
Cupressus macrocarpa	Monterey cypress
Cut-Out	herbicide with provisional label, not current
Cyanazine	herbicide. =active constituent. Type=triazine Oral 334 mg/kg
cypermethrin	insecticide - synthetic pyrethroid
Cytospora eucalypticola	fungus associated with stem cankers
D-ter	repellant (sprayed onto foliage) a.i. aluminum ammonium sulfate
Dacthal /W 75	herbicide (wetable powder) a.i. chlorthal
Dalapon	chemical
DDT (insecticide)	insecticide. =active constituent. Type=organochlorine
Deltamethrin	insecticide - synthetic pyrethroid
demeton S methyl	insecticide. =active constituent. Type=organophosphate Oral 57 mg/kg Dermal 303. Form - applied as spray
Devrinol	herbicide a.i. napropamide
diammonium phosphate (DAP)	fertiliser (DAP)
dichlobenil	herbicide. =active constituent. Type=benzonitrile. Oral 3160 mg/kg
Dichlorprop	herbicide. =active constituent. Type=phenoxy Oral 800 mg/kg
Diclofop	herbicide (systemic). Also from isomer Diclofop-methyl=active constituent. Type=aryloxyphenoxy Oral 679 mg/kg
Diflufenican	herbicide. =active constituent. Type=diphenylether Oral >200 mg/kg Dermal 2000
dimethoate	insecticide. =active constituent. Type=organophosphate Oral 260 mg/kg Dermal 800
diphenamid	Chem. =active constituent. Type=amide Oral 1000 mg/kg

<i>KEYWORD</i>	<i>Description</i>
Diquat	herbicide. =active constituent. Diquat as Diquat dibromide monohydrate Type=bipyridylum Oral 400 mg/kg
disulfoton	insecticide
Disyston (insecticide)	insecticide (granular systemic) a.i. disulfoton
Diuron	herbicide. =active constituent. Type=subs. Urea Oral 3400 mg/kg Form apply as spray
Dominex 100	insecticide a.i. cypermethrin
DP60	herbicide a.i. dichlorprop
Dual	herbicide
Dual Gold	herbicide
Dynamic Lifter	fertiliser
E. regnans x E. obliqua	natural hybrid
Eclipse	herbicide a.i. metosulam
Endothia gyrosa	fungus associated with stem cankers
Enide 50W	herbicide (wetable powder) a.i. diphenamid
equipment	Trial compares different equipment, e.g. bulldozer, excavators for windrows, different machines for site preparation
Erigeron bonariensis	fleabane
Eriococcus coriaceus	insect
Erodium spp	storksbill
establishment techniques	Includes site preparation, slash retention, tree guards, initial fertiliser and weed control. Excludes planting stock, underplanting and trials solely irrigated,
Euc-Mix G	herbicide a.i. terbacil and sulfometuron methyl
FeEDDHA	fertiliser (foliar) a.i. ethylene diamine (di o-hydroxyphenylacetic acid)
fencing	Any trial which is fenced to exclude grazing/browsing
Fenoxaprop	Chem. Fenoprop as the iso octyl ester =active constituent. Type=phenoxy Oral 650 mg/kg
fertilisers - urea	Chem. Family
Fervin	herbicide a.i. allozidim
fireblight beetle	Acacicola orphana
Flame	herbicide
Flamprop-methyl	herbicide. Flamprop-M-methyl or isopropyl=active constituent. Type=arylalanine Oral >720 mg/kg
fleabane	Erigeron bonariensis
Fluazifop	herbicide. Fluazifop-Butyl or Fluazifop-P,Butyl =active constituent. Type= arloxyphenoxy Oral 3330/3680 mg/kg respectively
Fluazifop butyl	herbicide. =active constituent. Type= arloxyphenoxy Oral 3330 mg/kg
Flumetsulam	herbicide. =active constituent. Type=sulfonamide

<i>KEYWORD</i>	<i>Description</i>
Fluroxypyr	herbicide. Fluroxypyr as the methyl heptyl ester =active constituent. Type=pyridine Oral >5000 mg/kg Dermal >2000
Forest Mix	herbicide a.i. hexazinone and atrazine
Frenock	herbicide
Fusilade	herbicide a.i. fluazifop-butyl
Garlon	herbicide a.i. triclopyr
Gelonus tasmanicus	sap sucking coreid bug
Gesamil 50	herbicide (wetable powder) a.i. propazine
Gesaprim / 80	herbicide (flowable) a.i. atrazine Mode of action is root-absorbed residual with some foliar absorption
Gesatop / 80/ 500 FW	herbicide (flowable) Common chemical name of a.i. simazine. Mode of action is root-absorbed residual
Gippsland blue gum	Eucalyptus globulus subsp. pseudoglobulus
Glean	herbicide a.i. chlorsulfuron
Glufosinate	herbicide. Glufosinate ammonium =active constituent. Type=glycine (Phosphinico amino acid) Oral 200 mg/kg Dermal 4000
glyphosate	herbicide. Glyphosate as the isopropylamine salt =active constituent. Type=glycine Oral >4300 mg/kg Dermal 5000
Goal	herbicide (emulsifiable concentrate) a.i. oxyfluorfen
Gramoxone	paraquat
grazing	Any trial known to be grazed
haloxyfop-methyl	herbicide. =active constituent. Type=aryloxyphenoxy Oral 393 mg/kg Dermal>2000
harvest timing	Trial compares different harvest times
herbicide	Trials which compare herbicide types, or growth with and without herbicide
hexazinone	herbicide. =active constituent. Type=triazinone Oral 860 mg/kg Dermal >5278
Holcus lantanas	Yorkshire fog
Hordeum leporinum	barley grass
Hygold12	fertiliser
Hygold18	fertiliser (blend of ammonium phosphate and ammonium sulphate giving 18% N, 8% P)
Imazethapyr	herbicide. Imazethapyr as the ammonium salt=active constituent. Type=imidazolinone Oral >5000 mg/kg Dermal >2000
insect pests	Trial documents insect damage or measures effects on trees
insect species - general list	Paper lists insect species found on trees
irrigation	Any trial which is irrigated
Kerb /50 WP	herbicide (wetable powder) a.i. propyzamide
Lagunaria patersonii	Norfolk Island Hibiscus

<i>KEYWORD</i>	<i>Description</i>
Linuron	herbicide. =active constituent. Type=Subs urea Oral 500 mg/kg Dermal >4000
Logran	herbicide a.i. triasulfuron
Lolium rigidum	ryegrass
Lontrel L	herbicide a.i. chlpyralid. Mode of action is primarily foliar with some residual activity.
low rainfall site	site with <800 mm rainfall
Lythrum hyssopifolia	loosestrife
Macrocrete	slow release fertiliser
Magamp	fertiliser
Maidens gum	Eucalyptus globulus subsp. maidenii
malathion	insecticide
Marshal/Suscon granules (insecticide)	insecticide (systemic) a.i. carbosulfan
Mauri guard	tree shelter
Metasystox	insecticide (Systemic)
methidathion	insecticide
metolachlor	herbicide. =active constituent. Type= amide Oral 2780 mg/kg Dermal 3780
Metosulam	herbicide. =active constituent. Type=triazolopyrimidine
Metribuzin	herbicide. =active constituent. Type=triazinone Oral >2000 mg/kg Dermal 20000. Do not apply on sandy soils, or on non-irrigated crops (hort.)
Metsulfuron	herbicide. Metsulfuron methyl (Brush-Off)=active constituent. Type=sulphonylurea Oral >5000 mg/kg Dermal >2000
Milestone	herbicide
Mnesampela privata	autumn gum moth
Monocrotophos	insecticide, acaricide. Type = organophosphorus
napropamide	herbicide. =active constituent. Type=aryloxyalkanamide Oral >5000 mg/kg
NH ₄ SO ₄	fertiliser
Nitram	fertiliser NH ₄ NO ₃
nitrofen	Chem. =active constituent. Type=substituted aromatic Oral 2630 mg/kg
Nitroform	fertiliser
Norflurazon	herbicide
Novodor	insecticide a.i. Btt
NPK Blue	fertiliser 12%N, 6%P, 16% K, 0.05% Cu, 0.05% Zn, 0.13% Mn, 1% Mg
nurse crop	tree species used in plantation as shelter for target tree species (e.g. eucalypt or pine species as shelter for blackwood)

<i>KEYWORD</i>	<i>Description</i>
nursery practice - copper carbonate on pots	chemical
Nutricote	slow release fertiliser
Nutrifert	fertiliser
Nuvacron	insecticide (Systemic) a.i. monocrotophos
oil mallee	Eucalyptus kochii
organophosphate insecticides	Chem. Family
organophosphorus herbicides	Chem. Family
organothiophosphate insecticides	Chem. Family
Orthene	insecticide
Oryzalin	herbicide. =active constituent. Type=dinitroaniline Oral >10000 mg/kg Dermal 2000
Osmocote	fertiliser
other tree species not listed	other species were in the trial, but are not listed in keyword list
Oust	herbicide. Tradename. Active constituent = sulfometuron methyl
oxadiazon	herbicide. =active constituent. Type=oxadiazolone Oral >8000 mg/kg Dermal 8000
oxyfluorfen	herbicide. =active constituent. Type=diphenylether Oral >5000 mg/kg
Pandanus spp.	Screw pine
Panicum maximum var. trichoglume	Green panic
Paraquat	herbicide. Paraquat as paraquat dichloride=active constituent. Type=bipyridylum Oral 150 mg/kg Dermal 236 Form applied as spray
Paspalum notatum	bahiagrass
pendimethalin	herbicide. =active constituent. Type=dinitroaniline Oral 1050 mg/kg Dermal 5000
Pennisetum clandestinum	kikuyu
pest control	Trials which compare treatments, or intentionally exclude plantation pests
Phoenix dactylifera	date palm
Phoenix sp.	date palms
phorate	insecticide
Phylactophaga eucalypti Froggatt	Hymenoptera, Pergidae
Pinus radiata	Monterrey pine
Pivot 18	Fertiliser - ammonium sulfate and ammonium phosphate
Pivot 800	NPK Fertiliser
Pivot 900	NPK fertiliser
plant analysis	foliage and/or other parts of plant analysed for nutrient content
plantation pests	Trial documents of measures effects of pests on trees

<i>KEYWORD</i>	<i>Description</i>
planting date	Trials comparing planting date or season
Pomaderis apetala	woody weed - Dogwood
Prefix	herbicide (granular) a.i. chlorthiamid
primisulfuron	herbicide
Propachlor	herbicide
Propazine	herbicide. =active constituent. Type=triazine Oral >7700 mg/kg Dermal 3100
propyzamide	herbicide =active constituent. Type=amide Oral 8350 mg/kg
Prothal	herbicide a.i. chlorthal + propachl
pruning	Trial with and without pruning, or comparing methods. See also Data section for branch measurements.
pulpwood production	Paper mentions that trees are intended for pulpwood production
Pulse	Adjuvant - Wetting agent and plant penetrant
Pyrgoides orphana	fireblight beetle
Pyridate	herbicide. =active constituent. Type=pyridazine Oral 2000 mg/kg Dermal 3400
R6447	herbicide
Reglone	a.i. diquat
Replex	repellant (extracted dog urine)
Ripcord	a.i. pyrethroid cypermethrin
Robinia pseudoacacia	black locust
Rogor	insecticide (systemic)
Rotonet	plastic mesh fencing
roundup	herbicide. (liquid) Tradename. a.i. glyphosate. Mode of action is broad spectrum translocated foliar
saline site	Trees planted on saline soil
salinity comparison	Trial compares sites or irrigation water with different salinity levels.
Salix matsudana	hybrid willow
Salix matsudana cv. "tortusa"	corkscrew willow
sawlogs	Paper mentions that trees are intended for sawlog production
Sertin	herbicide a.i. sethoxydim
Setaria	Poaceae
sethoxydim	herbicide. =active constituent. Type=cyclohexanedione Oral >3200 mg/kg Dermal 5000
Shamrox	herbicide a.i. chlorthal+ linuron
Silviculture	Only used if trial includes field comparison of silvicultural management. Includes planting stock. Excludes insect monitoring papers, species/provenance trials, windbreaks, plots on saline sites

<i>KEYWORD</i>	<i>Description</i>
Simatrole D	herbicide (wetable powder) a.i. dalapon/simazine/amtrole
simazine	herbicide. =active constituent. Type=triazine Oral >10000 mg/kg
site comparison (across experiments)	Tree growth from different experiments is compared.
site comparison (within experiment)	Sites are compared as part of the experimental design.
site preparation	Trial which compares soil/site preparation techniques, excluding slash retention
soil amendments	Trial compares amendments to soil, e.g. Terrasorb, Agrosoke, organic material added into soil.
soil type	Paper compares sites, and has described different soil types.
Solanum tuberosum	potato
Solicam	herbicide
sorrel	Rumex acetosella
Southern blue gum	Eucalyptus globulus subsp. bicostata
species comparison	Species compared as part of trial, other aspects unknown
species comparison (general)	Not a designed part of trial
Spinnaker	herbicide a.i. imazethapyr
SSH0860	herbicide - knockdown and residual
Stomp	herbicide. Tradename. Active constituent=pendimethalin
storksbill	Erodium spp.
sulfate of ammonia	(NH ₄) ₂ SO ₄
Sulfometuron	see sulfometuron-methyl
Sulfometuron methyl	herbicide. =active constituent. Type=sulphonylurea Oral >5000 mg/kg
Superking	fertiliser (19.4% P, 18.5% Ca, 2.0% S)
Supracide (insecticide)	insecticide (systemic emulsifiable concentrate) a.i. methidathion
Surflan	herbicide
Tandem	herbicide a.i. tridiphane
Tasmanian blue gum	Eucalyptus globulus subsp. globulus
Terbacil	herbicide. =active constituent. Type=uracil Oral >5000 mg/kg
terbumeton	chemical
terbuthylazine	herbicide. =active constituent. Type=triazine Oral 2160 mg/kg
Terbutryn	herbicide. =active constituent. Type=triazine Oral 2500 mg/kg
Thimet (insecticide)	insecticide (granular systemic) a.i. phorate
Timbor	fertiliser
TL Plus (herbicide)	herbicide
Tok E-25	herbicide (Emulsifiable concentrate) a.i. nitrofen

<i>KEYWORD</i>	<i>Description</i>
Tralkoxydim	herbicide. =active constituent. Type=cyclohexanedione Oral 924 mg/kg Dermal 2000
Treflan	chemical
Triasulfuron	herbicide. =active constituent. Type=sulphonylurea
Trichosurus vulpecula	common brushtail possum
Triclopyr	herbicide. Triclopyr, amine or triclopyr, butoxy =active constituent. Type=pyridine (aryloxyalkanoic acid) Oral 550 mg/kg
Tridiphane	chemical
trifluralin	herbicide. =active constituent. Type=dinitroaniline Oral >10000 mg/kg
Trifluraline	herbicide
Trifolium repens	clover
Trifolium subterraneum	clover
Trifos	fertiliser
triple superphosphate	fertiliser
Trounce	herbicide
Tryquat	chemical
Ulexite	fertiliser
Velpar	herbicide. Tradename. Active constituent=hexazinone. Velpar K4 DF includes Diuron
Verdict	herbicide a.i. haloxyfop-methyl
Vicia sativa	Vetch (legume)
Vigran	compound nitrogen and phosphorous fertiliser
Visor	herbicide
Vorox AA	superseded herbicide. a.i. sebuthylazine
weed competition	Trial documents amount of weed competition
weed species - general list	Paper lists weed species found in tree plots
Weedazol TL Plus	herbicide (liquid) a.i. amitrole. Mode of action is broad spectrum translocated foliar
Whip	herbicide a.i. fenoxaprop-ethyl
wood properties	Trials which measure wood properties

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