Ian,
This listing and collection of references is in response to your request for information on the use of the 'old growth' term in an ecological/habitat context.

The following is a list by date of the references,from earliest to some later articles, that were checked for their use of and discussion on the 'old growth' term.

The basis of the search - library catalogue
-TREECD – printouts of literature searches on 'old growth' in title
-Tracing the bibliographies of articles

The notes are based on a skim read (that is, not a thorough reading),

Kathryn Lee, Forest Science Library
6 December 1999

AUSTRALIA

NOTES

It appears that the term was first used in an ecological context in Australia in **1989/1990**. Though Dyne (1992: 5) writes that "Old Growth forest have been a focus of debate in Australia for nearly two decades."

Useful Discussions

- Dargavel, John (1995) *Fashioning Australia's Forests.* Oxford University Press: Oxford.
- **provides a history of the term (loan sent)**

- Dargavel, John (1997) *Australia's Ever-Changing Forests III : Proceedings of the Third National Conference on Australian Forest History.* Centre for Resource and Environmental Studies, Australian National University: Canberra.
- **has papers that discuss historical, conceptual, cultural perspective on old-growth**
- **loan sent**

Dyne, G.R. (ed.) (1992) *Attributes of old-growth forest in Australia : proceedings of a workshop sponsored by the National Forest Inventory : proceedings of a workshop sponsored by the National Forest Inventory held in Canberra 6-7 May 1991.* Bureau of Rural Resources: Canberra.
- **also provides discussion on the term and its use in Australia**

Resources and Assessment Commission *Forest and Timber Inquiry*
- **there is a difference between the draft version and the final version**

CHRONOLOGICAL LISTING

1975

Australia. Working Group on the Economic and Environmental Aspects of the Export Woodchip Industry (1975)*Economic and Environmental Aspects of the Export Hardwood Woodchip Industry : Report of a Working Group set up by the Australian Ministers for the Environment and Conservation and Agriculture. Volumes 1 and 2.* Canberra: Australian Government Publishing Service.
- **uses the term as a conversion term**

Routley, R. and V. (1975) *The Fight for the Forests: the Takeover of Australian Forests for Pines, Wood Chips, and Intensive Forestry.* 3rd ed. Australian National University, Research School of Social Sciences: Canberra.
- **could find no reference during a skim read**

1983

Victoria. State Forests Department (1983)
Options for future wood production in Victoria : report to the Minister of Forests by a Task Force of the Following Officers of the State Forests Department ....
Office of the Minister: [Melbourne]
- **term used as a conversion term**

1984

Cadman, Sean (1984) *Fire and Forest Management : Impacts and Alternatives.* Forest Action Network: Hobart.
- **uses the term**

Australian Biological Research (1984). *The Impacts of Timber Production and Harvesting on Native Flora and Fauna : a Report Commissioned by the Board of Inquiry into the Timber Industry, Victoria.* Malvern
- **not used, uses 'mature', photocopy sent**

Davies, S.J.J.F. (1983) *Methods of Censusing Birds in Australia : Proceedings of a Symposium organised jointly by the Zoology Section of the ANZAAS and the Western Australian Group of the Royal Australasian Ornithologists Union.* Perth: Department of Conservation and Environment.
- **could find no reference during a skim read**

Smith, Andrew and Ian Hume (Eds.) (984) *Possums and Gliders.* Surry Beatty: Chipping Norton.
- **could find no reference during a skim read**

1985

Australian Biological Research Group (1985). 'The impacts of timber production and harvesting on native flora and fauna' in *Report of the Board of Inquiry into the Timber Industry, Vol. 2.* Melbourne: VGPO.
- **references to and discussion on "mature" forest (see attached photocopies)**

Carron, L.T. (1985). *A History of Forestry in Australia.* Canberra: Australian National University Press.
- **could find no reference during a skim read**

Keast, A., Recher, H.F., H. Ford and D. Saunders (1985) *Birds of Eucalypt Forests and Woodlands : Ecology, Conservation, Management.* Chipping Norton: Surrey Beatty.
- **could find no reference during a skim read**

Kikkawa, Jiro Editor (1985) *Wildlife Management in the Forests and Forestry-Controlled Lands in the Tropics and the Southern Hemisphere : Proceedings of a Workshop held at the University of Queensland, Australia, 16-18 July 1984.* University of Queensland: St Lucia.
- **the terms "mature" and "old age" used in paper by Recher, Harry 'A Diminishing Resources : Mature Forest and its Role in Forest Management'**

Shields, J. and R. Kavanagh (1985) *Wildlife Research and Management in the Forestry Commission of N.S.W. : a Review.* Forestry Commission of N.S.W.: Sydney.
- **could find no reference during a skim read**

Victoria. Board of Inquiry into the Timber Industry in Victoria (1985) *Report of the Board of Inquiry into the Timber Industry in Victoria, Vol. 1.* Melbourne: V.G.P.O.
- **term is used as a conversion term - in Chapter 18, Options for State Hardwood Forests**

1986

Victoria. Lands Conservation Council (1986) *East Gippsland Area Review : Proposed Recommendations.* Melbourne
- **term is not used**

Victoria. (1986) Victoria timber industry strategy. Government Print: Melbourne.
- **not checked, missing**

1987

Dargavel, J. & Sheldon, G. eds (1987) *Prospects for Australian Hardwood Forests*. Centre for Resource and Environmental Studies, Canberra.

- **term included in the glossary – "*Natural stands containing many mature or over-mature trees*" p. 322**

Institute of Foresters of Australia Inc.
National Forest Policy for Australia
Canberra.

- **term is not used**

Preece, Kathy and Rob Lesslie (1987) *A Survey of Wilderness Quality in Victoria : a report to the Ministry for Planning and Environment Victoria and the Australian Heritage Commission.* Ministry for Planning and Environment Victoria and the Australian Heritage Commission.

- **could not find the term during a skim read**

Saunders, Denis A. [et al.] (1987) *Nature Conservation : the Role of Remnants of Native Vegetation*. Surrey Beatty: Chipping Norton.

- **term not used**

Victoria (1987) *Protecting the Environment : an Outline of Victoria's Conservation Strategy.* [Govt. Printer]: Melbourne.

- **term not used**

1988

Australia. Commission of Inquiry into the Lemonthyme and Southern Forests (1988) *Report of the Commission of Inquiry into the Lemonthyme and Southern Forests Volume One.* Australian Government Publishing Service: Canberra.

- **term is used within ecological context in Chapter 5: Tall Eucalypt Forests : Qualifying Areas**
- **the glossary in Volume Two defines it "*Oldgrowth: forests with trees greater than 110 years of age where it is assumed net growth is minimal.*" (p. 582)**

Lunney, Daniel and Chris Moon (1998) 'An Ecological View of the History of Logging and Fire in Mumbulla State Forest on the South Coast of New South Wales' in Frawley, Kevin J. and Noel M. Semple (1988) *Australia's Ever Changing Forests : Proceedings of the First National Conference on Australian Forest History, Canberra, 9-11 May, 1998.* Australian Defence Force Academy, Department of Geography and Oceanography: Campbell, A.C.T..

- **uses the term "unlogged"**
-

1989

Clark, J. and M. Blakers (1989)
Forest Conservation and Wood Supply – No Need for Conflict. RMIT Faculty of Environmental Design and Construction, Melbourne.

- **term is defined within ecological context, photocopy is sent**

Florence, R. (1989)
Wood production and the Environment : Working in Harmony with Nature. National Association of Forest Industries, Canberra.

- **term is used**

Galvin, P. (1989) 'Keynote address' in *Australian Forestry.* Vol. 52(4) pp. 248-252

- **term is used, photocopy sent**

Kestel Research (1989)
National Estate Survey of Eucalyptus Old Growth Forests : a report to the Australian Heritage Commission.

- **could be useful, not held in CALM library**

Victoria. Department of Conservation, Forests & Lands
Inquiry into the Proposed Trial of the Value Adding Utilisation System, Central and East Gippsland Forest Management Areas Under the Environment Effects Act. Melbourne

- **term not used**

1990

Australia. Joint Scientific Committee on South-East Forests
Biological Conservation of the South-east Forests : report of the Joint Scientific Committee ... Australian Government Publishing Service: Canberra.

- **no glossary but does have an ecological perspective: "*the replacement of species-diverse old-growth forests by supposedly less diverse regrowth stands, creates instability, at least for some populations.*" (p. 33)**

Australian Heritage Commission (1990) *Forests and the National Estate, Part 4A, Protecting the Natural National Estate Value of Forests : References and Appendices : a Submission to the Resource Assessment Commission Inquiry into Australian Forest and Timber Resources.* Australian Heritage Commission.

- **loan sent**
- **has an extensive bibliography which has been checked for useful references**
- **might be worth re-checking**
- **have marked in pencil references that might be worth checking**

Australian Heritage Commission (1990) *Forests and the National Estate, Part 3, the National Estate Value of Forests : a submission to the Resource Assessment Commission Inquiry into Australian Forest and Timber Resources.* Australian Heritage Commission.

- **a wide-ranging discussion on the term in 6. National Estate Significance of Old-Growth Forests**
  book has been sent
  the reference list has been scanned (see attached photocopy)

Bennett, Andrew F. (1990) *Habitat Corridors : Their Role in Wildlife Management and Conservation.* Dept. of Conservation and Environment: Melbourne?.

- **conversion term, photocopy sent**

Davey, S.M. and Norton, T.W. (1990) 'State Forests in Australia and Their Role in Wildlife Conservation' in Saunders, D.M., Hopkins, A.J.M., How, R.A. (Eds.) (1990) *Australian Ecosystems : 200 Years of Utilization, Degradation and Reconstruction : Proceedings of a Symposium Held in Geraldton, Western Australia, 28 August-2 September, 1988 (*Proceedings of the Ecological SocietyVolume 16) pp. 323-346.

- **term not used**

Lindenmayer, D.B. [et al.] (1990) 'The Conservation of Arboreal Marsupials in the Montane Ash Forests of the Central Highlands of Victoria, South East Australia: I. Factors Influencing the Occupancy of Trees with Hollows' in *Biological Conservation* 54 pp. 111-131

- **term not used**

Lindenmayer, D. B. [et al.] (1990) 'The Conservation of Arboreal Marsupials in the Montane Ash Forests of the Central Highlands of Victoria, South-East Australia: II. The Loss of Trees with Hollows and its Implications for the Conservation of Leadbeater's Possum *Gymnobelideus leadbeateri* McCoy (Marsupialia: Petauridae)' in *Biological Conservation* Vol. 54 pp. 133-145

- **term not used**

Lindenmayer, D.B., Tanton, M. T., Norton, T.W. 'Leadbeater's Possum – a Test Case for Integrated Forestry' in *Search* Vol. 21(5) pp. 156-159

- **term not used**

1991

Delahunt, A.; Mednis, A. and R.W. Purdie (1991) 'The National Estate, Forests and Fauna' in *Conservation of Australia's Forest Fauna* / edited by Daniel Lunney. Royal Zoological Society of NSW: Mosman. pp. 245-57

- **term is used**

Ecologically Sustainable Development Working Groups
Final report : forest use.
Canberra: AGPS, 1991

- **does not appear in the glossary**
- **is discussed under Definitions in the Introduction [see the attached]**
- **is discussed under Chapter 6 Maintaining biodiversity [see the attached]**
- **is discussed under Chapter 7 Optimising benefits to the community from all uses [see the attached]**

Frawley, Kevin (1991) 'Everything is older than we think' : forest history and the conservation of forest fauna' in *Conservation of Australia's Forest Fauna* / edited by Daniel Lunney. Royal Zoological Society of NSW: Mosman. pp. 137-46

Institute of Foresters (1991) *IFA policy statement on old growth forests and woodlands.* Doc. Ref: 817/2

- **not held in CALM Library**

Kavanagh, R.P. (1991) 'The Target Species Approach to Wildlife Management : Gliders and Owls in the Forests of Southeastern New South Wales' Turner, Robert J. (1991) 'The Role of Retained Strips for Fauna Conservation in Production Forests in Tasmania' in *Conservation of Australia's Forest Fauna* / edited by Daniel Lunney. Royal Zoological Society of NSW: Mosman. pp. 377-83

- **term is used**

Lunney, Daniel (1991) 'The future of Australia's forest fauna' in *Conservation of Australia's Forest Fauna* / edited by Daniel Lunney. Royal Zoological Society of NSW: Mosman. pp. 1-24

- **term is used**

McKinnell, F.H., Hopkins, E.R. and Fox, J.E.D. (eds) (1991) *Forest Management in Australia.* Surrey Beatty: Chipping Norton.

- **skim read shows term used**

Milledge, D. R. (1991) 'Barometers of change' : the distribution of large owls and gliders in Mountain Ash forests of the Victorian Central Highlands and their potential as management indicators' in *Conservation of Australia's Forest Fauna* / edited by Daniel Lunney. Royal Zoological Society of NSW: Mosman. pp. 53-65.

- **term is used**

Norton, T.W. (1991) 'Integrated management of forest wildlife: towards a coherent strategy across state borders and land tenures' in *Conservation of Australia's Forest Fauna* / edited by Daniel Lunney. Royal Zoological Society of NSW: Mosman. pp. 265-270

- **term is used**

Recher, Harry F. (1991) 'The Conservation and Management of Eucalypt Forest Birds : Resource Requirements for Nesting and Foraging' in *Conservation of Australia's Forest Fauna* / edited by Daniel Lunney. Royal Zoological Society of NSW: Mosman. pp. 245-57

- **term is used**

Scotts, David J. (1991) 'Old-growth forests : their ecological characteristics and value to forest-dependent vertebrate fauna of south-east Australia' Turner, Robert J. (1991) 'The Role of Retained Strips for Fauna Conservation in Production Forests in Tasmania' in *Conservation of Australia's Forest Fauna* / edited by Daniel Lunney. Royal Zoological Society of NSW: Mosman. pp. 147-59

- **term is discussed – photocopy sent**

Resource Assessment Commission
Forest and Timber Inquiry : draft report. Volume 1, 2 and Overview
Canberra: AGPS, 1991

- **discussed in Volume 1, Overview [see the attached]**
- **discussed in Volume 1, Chapter 1 Forests : the context [see the attached]**
- **mentioned in Volume 1, Attachment I.1 Modelling carbon storage in unharvested or old-growth forest and harvested or regrowth forest**
- **included under Forest Issues in Overview [see the attached]**

Smith, Andrew P. (1991) 'Forest Policy : Fostering Environmental Conflict in the Australian Timber Industry' Turner, Robert J. (1991) 'The Role of Retained Strips for Fauna Conservation in Production Forests in Tasmania' in *Conservation of Australia's Forest Fauna* / edited by Daniel Lunney. Royal Zoological Society of NSW: Mosman. pp. 301-314

- **term is used**

Sutton, Philip (1991) 'Forest Management in Victoria Beyond the 1990s : a Bright Green, Socially Just, High Economic Growth Scenario' Turner, Robert J. (1991) 'The Role of Retained Strips for Fauna Conservation in Production Forests in Tasmania' in *Conservation of Australia's Forest Fauna* / edited by Daniel Lunney. Royal Zoological Society of NSW: Mosman. pp. 315-29

- **term is used**

Turner, Robert J. (1991) 'The Role of Retained Strips for Fauna Conservation in Production Forests in Tasmania' in *Conservation of Australia's Forest Fauna* / edited by Daniel Lunney. Royal Zoological Society of NSW: Mosman. pp. 238-244

- **term is used**

Wilson, Barbara A. (1991) 'Conservation of Forest Fauna in Victoria' in *Conservation of Australia's Forest Fauna* / edited by Daniel Lunney. Royal Zoological Society of NSW: Mosman. pp. 281-299

- **term is used**

1992

Dyne, G.R. (ed.) *Attributes of old-growth forest in Australia : proceedings of a workshop sponsored by the National Forest Inventory : proceedings of a workshop sponsored by the National Forest Inventory held in Canberra 6-7 May 1991*. Bureau of Rural Resources: Canberra.

- **does have a discussion on the use of the term in Australia – see Appendix2, Definitions and Concepts of Old Growth in Australia**
- **loan sent**

Love, Ashley, Cavanaugh, Janet and Willett, David (1992) *Old-growth Forest Attributes in North East New South Wales : Proceedings of a Regional Workshop held as part of the National Forest Inventory at Woody Head, Bundjalung National Park, NSW on 26-27 May 1992.* NSW National Parks and Wildlife Service: Hurstville.

- **discussion on term**
- **held at Woodvale library**

Mueck, S.G. and Peacock, R. J. (1992) *Impacts of Intensive Timber Harvesting on the Forests of East Gippsland, Victoria*. Dept. of Conservation & Natural Resources: East Melbourne.
- **term is used as a conversion term**

National forest policy statement. Canberra: AGPS, 1992
- **term is used as a conversion/ecological term (see photocopy)**

Resource Assessment Commission
Forest and Timber Inquiry : final report. Volumes 1, 2A, 2B
Canberra: AGPS, 1992

- **does not appear in the glossary for any of the volumes but**
- **a definition and discussion is included in the Overview [see attached photocopy]**
- **in Volume 1 a definition and discussion is included in Principal Conclusions and Recommendations [see attached photocopy]**
  - there is a chapter entitled, Chapter 6 Old-growth forests [see the attached photocopy]
  - In Chapter 15 National Forest and Timber Use Strategies there is a section, Remaining old growth in high productivity forest [see the attached]
- **in Volume 2B Appendix S. The Integrated Forest Model included in table, Table S.2 Scenario variables used in INFORM [see the attached photocopy]**
  in Volume 2 Appendix L Scenarios for the future of Australia's forest resource
  - there is a heading – Old-growth forest (p. L28-L31) [see attached photocopy]
- **is used in the sections, L.3 The Australian Conservation Foundation's alternative strategy, Logging prescriptions, Old-growth forest (p. L57-L59) [see attached photocopy], Old-growth forest (p. L79) [see attached]**

Resource Assessment Commission
A survey of Australia's forest resource.
Canberra: AGPS, 1992

- **appears in tables for Chapter 6 Silvicultural practices**

Squire, Ross O. (1992)
First Interim Report for the Value Adding Utilisation System Trial : 1989-1991.
Melbourne: Department of Conservation and Environment.
- **uses the term in the section for old growth**

1993
Bartlett, A.G. & P.W. Woodgate (1993) 'Towards ecologically sustainable management of old-growth forests in East Gippsland' in Thwaites, R.N. and B.J. Schaumberg (1993) *Australasian Forestry and the Global Environment : proceedings of the 15th IFA biennial conference, Alexandra Headland, Queensland, 19-24 September 1993.* The Institute: Canberra.

1994
Abrahams, Harry (1994) (Ed.) *Identification and Assessment of National Estate Fauna Values : Report of the Fauna Value Workshop held at the Australian Heritage Commission on 29 October 1993.* Australian Heritage Commission: Barton.
- **term is used**

Ecology and Sustainability of Southern Temperate Ecosystems /editors, T.W. Norton and S.R. Dovers, Melbourne: CSIRO, 1994.

- **term is used in many of the chapters**

Woodgate, P.W. [et al.], 1994. *A Study of the Old-Growth Forests of East Gippsland*, East Melbourne: Department of Conservation and Natural Resources. [held in library & sent as loan]

- **a discussion of the term is provided in the summary and in Chapter 2, Concepts and definitions of old-growth forest.**
- **the Reference List was checked for a reference trial and certain items held in the CALM library were checked [see the notations on the attached photocopy of the References]**
- **loan is sent**

1996

Woodgate, P.W. [et al.] (1996) 'Old-growth Forest Studies in Victoria, Australia : Concepts and Principles' *Forest Ecology and Management* Vol. 85 pp. 79-94

- **photocopy sent**

WESTERN AUSTRALIA

NOTES

- the search for the term was focused on only policy documents
- it would seem with these departmental publications and other reviews on forest management that the term has been used in an ecological context from **1992+**
- a search on TREECD by – [old growth in title] and Western Australia = resulted in 0 references
- an individual check of journal articles by CALM and other scientists (such as Christensen, Stoneman) has not been carried out to see if the term was used. This is a possible area for further research – let the library know

CHRONOLOGICAL LISTING

1987

Western Australia. Department of Conservation and Land Management (1987)*Central Forest Regional Management Plan 1987-1997.* Como.

- **could not find the term during a skim read**

Western Australia. Department of Conservation and Land Management (1987) *Northern Forest Region : Regional Management Plan 1987-1997.* Como.

- **could not find the term during a skim read**

Western Australia. Department of Conservation and Land Management (1987) *Southern Forest Region : Regional Management Plan 1987-1997.* Como.

- **could not find the term during a skim read**

Western Australia. Department of Conservation and Land Management (1987) *Timber Production in Western Australia : a Strategy to take W.A.'s south-west Forests into the 21st Century.* Como.

- **term used in a conversion context under heading"Old growth (original) forests"**

1990

Western Australia (1990) *Submission to Resource Assessment Commission : Inquiry Into Forest and Timber Resources.* Perth.

- **Chapter 6, Key Issues in Forest Management**
  6.2 Timber Harvesting in "Old Growth Forests' – "*An issue of concern to the Government is the question of timber harvest from old growth forests. Part of the problem with this issue is the question of definition. From the West Australian perspective "old growth forest" is synonymous with virgin forest – ie, forest which has been largely unmodified by timber cutting or agricultural clearing since the time of European settlement.*" p. 37

1991

Wardell-Johnson, Grant and Owen Nichols (1991). 'Forest Wildlife and Habitat Management in Southwestern Australia : Knowledge, Research and Direction' pp. 161-192 in *Conservation of Australia's Forest Fauna* / edited by Daniel Lunney. Royal Zoological Society of NSW: Mosman.

- **Not used**

1992

Australian Heritage Commission (1992) *National Estate Values in the Southern Forest Region, South-West Western Australia. Volume One.* [draft] Department of Conservation and Land Management: Como.

- **term is used but not explained fully**

Australian Heritage Commission (1992) *National Estate Values in the Southern Forest Region, South-West Western Australia. Volume Two : Appendix 1 : Assessment Methodology* [draft] Department of Conservation and Land Management: Como.

- **quick skim read: term not used**

Australian Heritage Commission (1992) *National Estate Values in the Southern Forest Region, South-West Western Australia. Volume Three : Appendix 2, Description of National Estate Values in Indicative Areas., Appendix 3, Protection of Identified National Estate Values in Nature Conservation Reserves* [draft] Department of Conservation and Land Management: Como.

- **quick skim read: term not used**

Australian Heritage Commission (1992) *National Estate Values in the Southern Forest Region, South-West Western Australia. Volume Four : Appendix 4, Australian Heritage Commission – Guidelines for Protection of National Estate Values* [draft] Department of Conservation and Land Management: Como.

- **quick skim read: term not used**

Barnett, Tos (1992) Report to Hon. Jim McGinty, MLA, Minister for the Environment / by Tos Barnett as Appeals Committee examining appeals submitted in relation to the report and recommendations of the Environmental Protection Authority on 'Proposals to amend the 1987 forest management plans and timber strategy and proposals to meet environmental conditions on the regional plans and the WACAP ERMP'. [The Committee]: Perth.

- **old growth is referred to in an ecological context**
- **EPA recommendations : 5. Identifying 3, 200ha of outstanding old growth karri forest EPA Recommendation**
- **Included in 7.1 of Appendix 1, Recommendations to Individual Appeal Points 7.1 EPA writes of all old growth forest outside present conservation reserves-; 6.3 CALM proposes to clearfell these area, 9.1 Recommendation 5 should not require these areas to be identified within three years but progressively as public concerns become apparent**

Western Australia. Department of Conservation and Land Management (1992) *Proposals to Amend the 1987 Forest Management Plans and Timber Strategy and Proposals to Meet Ministerial Conditions on the Regional Plans and the WACAP ERMP : formal assessment under Part IV of the EPA Act.* Department of Conservation and Land Management: Como.

- **3.2 High value old growth forest including Table 6, Proposals for identification and management of high value old growth forests in WA**
- **glossary definition " a patch of forest in which the overstorey contains mature and over mature trees, the break up of whose crowns is resulting in seedling establishment and development."**
- **Photocopy sent**

Western Australia. Department of Conservation and Land Management (1992) *Management Strategies for the South-West Forests of Western Australia : a review : draft.* Department of Conservation and Land Management: Como.

- **photocopy of old-growth sections sent**

Western Australia. Environmental Protection Authority (1992) *Proposals to amend the 1987 Forest Management Plans and Timber Strategy and Proposals To Meet Environmental Conditions and the Regional Plans and the WACAP ERMP.* Perth.

- **photocopy of section discussing use of old growth term sent**
- **term is used through the document**

1993

Western Australia. Scientific and Administrative Committee (1993)
A report to the Hon. Kevin J. Minson, MLA Minister for the Environment by the Scientific and Administrative Committee inquiring into conditions set persuant to the Environmental Protection Act 1986 for the proposed amendments to the 1987 forest management plans and timber strategy, and proposals to meet environmental conditions on the regional plans and the WACAP ERMP proponent, Department of Conservation and Land management. The Committee: Perth.

- **photocopy of old growth sections sent**

1994

Lands and Forest Commission (1994) *Forest Management Plan, 1994-2003.* Department of Conservation and Land Management: [Como].

- **chapter – "High-value old-growth forests"**

1995

Government of Western Australia (1995) *Deferred Forest Assessment for Western Australia : Draft Report.* The Govt.:[Perth].

- **has a chapter – Old Growth Assessment**

1997

Environment Forest Taskforce, Environment Australia and Conservation and Land Management (1997) *Review of data and methodology for old-growth mapping in the south west forest region of Western Australia : comprehensive regional assessment of old-growth forest in Western Australia.* Commonwealth & Western Australian Regional Forest Agreement Steering Committee: [Canberra].

1998

Bradshaw, F.J. (1998) *Old growth mapping : a report prepared for the Western Australian Forest Agreement.* [Commonwealth & Western Australian Regional Forest Agreement Steering Committee]: [Canberra].

Commonwealth and Western Australian Regional Forest Agreement Steering Committee (1998) *Commonwealth and Western Australian Regional Forest Agreement Steering Committee Comprehensive regional assessment : a Regional Forest Agreement for Western Australia. Volume 2, maps.* The Committee: [Canberra].

- **map – Old growth forest**

Mattiske Consulting Pty Ltd (1998) Regional Forest Agreement in Western Australia : Review of Old Growth Areas Raised by Stakeholders : report prepared for Environment Australia / report prepared by Mattiske Consulting Pty Ltd. [Commonwealth & Western Australian Regional Forest Agreement Steering Committee]: Como.

Western Australia. Dept. of Conservation & Land Management (1998) *Old-growth forest : comprehensive regional assessment, south west forest region.* Como. [map]

1999

Western Australia (1999) *Information Kit.* Govt. of W.A.

- **information sheet - Old growth & biodiversity**

UNITED STATES

NOTES

- it seems to have been used in an ecological context since the late seventies; with the Franklin (1981) article being pivotal and a definition being provided by the American Society of Foresters in 1984
- check the article by Hunter (1978) for a conceptual discussion
  for a history check - White, David L. and F. Thomas Lloyd (1995) 'Defining Old Growth : Implications for Management' in *Proceedings of the Eight Biennial Southern Silvicultural Research Conference, Auburn ... 1994.* 1995.
  (General technical report SRS 1)
- printouts sent of literature searches for the term "old growth" in title on TREECD to cover the period 1972-1985 and 1985-1972
- printout of author search for Franklin also sent

CHRONOLOGICAL LISTING

1968

Litton, R.B. (1968) *Forest landscape description and inventories.* USDA Forest Service Research Paper PSW 49

- **term not used**

1975

Tesch, S.D. (1975) *The Composition and Dynamics of the Tree Strata Within an Old-Growth Douglas-fir forest in Western Montana.* M.S. thesis, University of Montana, Missoula.

- **not checked, cited in *The Fragmented Forest* reference list**

1977

Grier, G.C. (1977) 'Old-growth Pseudotsuga menziesii communities of a western Oregon watershed : biomass distribution and production budgets.' *Ecological Monographs* 47(4) pp. 373-400.

- **Not checked, issue missing from Woodvale (cited in Franklin (1981))**

1978

Bull, Evelyn L. (1978) 'Specialized habitat requirements of birds : Snag Management, Old-Growth, and Riparian Habitat' in DeGraaf, Richard M.Technical Coordinator (1978) *Proceedings of the Workshop on Nongame Bird Habitat Management in the Coniferous Forests of the western United States, February 7-9, 1997, Portland, Oregon* USDA, Forest Service, Pacific Northwest Forest and Range Experiment Station: Portland, Oregon. (General technical report PNW 64) pp. 74-74-82

- **term is defined in a biodiversity context, loan is sent**

1979

Bormann, F.H. and G.E. Likens (1979) *Pattern and Process in a Forested Ecosystem.* Springer-Verlag: New York.

- **cited in some of the bibliographies of later articles**

Murphy, M.L. (1979) *Predator Assemblages in Old-Growth and Logged Sections of Small Cascade Streams.* M.S. thesis. Oregon State University: Corvallis.

- **not checked, cited in Franklin (1981)**

Thomas, Jack Ward (1979) *Wildlife Habitats in Managed Forests : the Blue Mountains of Oregon and Washington.* USDA: Washington. (Agriculture Handbook 553)

- **term is used as a conversion term (photocopy sent)**

1980

Franklin, Jerry F. and Waring, Richard H. (1980) 'Distinctive Features of the Northwestern Coniferous Forest : Development, Structure, and Function', Waring, Richard H. (Ed.) *Forests : Fresh Perspectives from Ecosystem Analysis : Proceedings of the 40th Annual Biology Colloquium.* Oregon State University Press: Corvallis, Oregon.

- **term is used, photocopy sent**

1981

Franklin, Jerry F. 'Aspects of Succession in the Conferous Forests of the Pacific Northwest' in West, Darrell C., Shugart, Herman H., Botkin, Daniel B. in *Forest Succession : Concepts and Application.* New York: Springer-Verlag. pp. 212-229.

- **term used as a succession term**

Franklin, J.F. [et al] *Ecological characteristics of old-growth Douglas fir forests* U.S. Forest Service, Pacific Northwest Forest and Range Experiment Station: Portland. (General technical report PNW ; 118)

- **term is used, photocopy of bibliography is sent**
    - **Citations -**
    - **cites Boyce, J.S. and J.W. Bruce Wagg (1953)**
    - **Bull, E. L. (1978) – loan is sent**
    - **1974 Dyrness, Franklin & Moir**
    - **1972 Fogel, Ogawa and Trappe**
    - **1973 Franklin & Dyrness**
    - **1974 Dyrness, Franklin and Moir**

Meslow, E.C., Maser, C. and Verner, J. (1981) 'Old-growth forests as wildlife habitat' in *Transactions in North American Wildlife and Natural Resources Conference* 46 pp 329-44

- **not checked, in *The Fragmented Forest* reference list**

Schoen, J. W., Wallmo, O.C. and Kirchhoff, M.D. (1981) 'Wildlife-forest relationships : Is a re-evaluation of old-growth necessary?' in *Transactions North American Wildlife and Natural Resources Conference* 46 pp. 531-44

1982

Franklin, J. F. (1982) 'Old growth forests in the Pacific Northwest : an Ecological View" In D. Johnson (Ed.) *Old-growth forests, a balanced perspective : Proceedings Conference Feb 12-14, 1982, Eugene, OR* University of Oregon Bur Gov Res: Eugene. Pp. 5-27

- **not held**

Harris, L.D. (1982) *Biogeography, old-growth islands and wildlife in the western Cascades.* University of Chicago Press: Chicago.

- **not held**

Harris, L.D., Maser, C. and McKee, A. (1982) 'Patterns of old growth harvest and implications for Cascades wildlife" in *Transactions North American Wildlife & Natural Resources Conference* 47 pp. 374-92

- **in some bibliographies including *The Fragmented Forest* reference list**

Sirmon, J.M. (1982) 'Management aspects of old growth forest.' In D. Johnson (Ed.) *Old-growth forests, a balanced perspective : Proceedings Conference Feb 12-14, 1982, Eugene, OR*
University of Oregon Bur Gov Res: Eugene. "in press"

- **not checked (from *The Fragmented Forest* reference list)**

1983

Ford-Robertson, F. C. Ed. (1983) Terminology of forest science technology practice and products / authorized by Joint FAO/IUFRO Committee on Forestry Bibliography and Terminology ; edited by F.C. Ford-Robertson, Addendum number one edited by Robert K. Winters. - English language version. Society of Amercian Foresters: Washington.

- **term is not included**

Franklin, Jerry F. 'Characteristics of old-growth Douglas-Fir Forests.' *Proceedings of the 1983 Convention of the Society of American Foresters.* pp. 328-334.

- **photocopy sent**

Heinrichs, Jay (1983) 'Old Growth Comes of Age' in *Journal of Forestry* Vol. 81(12) December 1983 pp. 776-778

- **photocopy sent**

1984

Society of American Foresters (1984) *Scheduling the Harvest of Old Growth.* Bethesda, Maryland. SAF Resource Policy Series

- **not held**

(1984) *New Forests for a Changing World : Proceedings, Society of American Foresters National Convention, October 16-20, Portland, Oregon.*

- **not held in the library, may be worth pursuing as it is included in many bibliographies**

1986

(1986) *Interim Definitions for Old-Growth Douglas-Fir and Mixed Conifer Forests in the Pacific Northwest and California : Old-Growth Definition Task Group.* Pacific Northwest Research Station: Portland, Oregon. (Research Note PNW ; 447)

- **photocopy sent**

Usher, M.B. (ed) (1986) *Wildlife Conservation Evaluation.* Chapman and Hall: London

- **book not held but according to the Woodgate (1994) publication it has a discussion of the criteria**
  and is included in several bibliographies

1987

Nyberg, J. B.; Harested, A.S. and Blunnell, F. L. (1987) 'Old Growth' by design : Managing young forests for old growth wildlife.' *Transactions 52nd North American Wildlife and Natural Resources Conference.* pp. 70-81.

- **photocopy sent – definition included - conversion/ecological use**

1988

Spies, Thomas A. , Franklin, Jerry F. (1988) 'Old Growth and Forest Dynamics in the Douglas-Fir Region of Western Oregon and Washington' in *Natural Areas Journal.* Vol. 8(3) pp. 190-199

- **photocopy sent**

Ward Thomas, Jack (1988) 'Management and Conservation of Old-Growth Forests in the United States' *Wildlife Society Bulletin* Vol. 16 pp. 252-262

- **provides a discussion on the use of the term, photocopy sent**
- **check the bibliography – it includes earlier usage back to possibly:**
- **Borman and Likens (1979),**
- **Thomas (1979) and**
- **Wallmo and Schoen (1980) and**
- **Schoen, Wallmo and Kirchoff (1981)**

1989

Bolgiano, Chris 'Public forests : a case for eastern old-growth' in *American forests* Vol. 95(5/6) pp. 26-31
- **photocopy sent**

Gregg, N. Taylor (1989)'Book review : Secrets of the Old-Growth Forest' in *Journal of forestry* Vol. 87(8) pp. 46-51
- **photocopy sent**

Hunter, Malcom L. (1989) 'What Constitutes an Old-Growth Stand? : Toward a Conceptual Definition of Old-Growth Forests' in *Journal of Forestry* Vol. 87(8) pp. 33-35
- **photocopy sent**

USDA Forest Service (1989) *Generic definition and description of old-growth forests. Memorandum to regional foresters, station directors, Washington office staff, October 11, 1989.* USDA Forest Service: Washington.
- **not held**

USDA Forest Service (1989) *Position statement on national forest old-growth values. Memorandum to regional foresters, station directors, Washington office staff, October 11, 1989.* USDA Forest Service: Washington.
- **not held**

1993

Simberloff, Daniel (1993) 'Species-Area and Fragmentation Effects on Old-Growth Forests : Prospects for Longleaf Pine Communities' in *Proceedings : 18th Tall Timbers Fire Ecology Conference, the Longleaf Pine Ecosystem : Ecology, Restoration and Management ...* Tallahassee, Fla.: Tall Timbers, 1993.
- **photocopy sent**

1995

Hardt, Richard A. 'Regional Polices for National Forest Old-growth Planning' in *Journal of Forestry* Vol. 93(6) pp. 32-35
- **photocopy sent**
- **bibliography provides a history of policy development**

White, David L. and F. Thomas Lloyd (1995) 'Defining Old Growth : Implications for Management' in *Proceedings of the Eight Biennial Southern Silvicultural Research Conference, Auburn ... 1994.* 1995. (General technical report SRS 1)

1996
General Technical Reports SRS Numbers 2, 3, 4 (A Section of the Old-Growth Definition Series)

1997
General Technical Reports SRS Numbers 7, 8, 9, 10, 12, 13, 15, 16 (A Section of the Old-Growth Definition Series)

1998
General Technical Report SRS Number 19 (A Section of the Old-Growth Definition Series)

EUROPE

- references using the term should appear in the printouts of the [old growth in title] searches
- a more extensive search may uncover more references

References by Franklin 1985-1972 only
(from most recent to least)

WinSPIRS 4.0

No.	Records	Request
1	109	franklin-j*
2	109	franklin-j* in au
3	154202	PY = 1972-1985
* 4	38	#2 and (PY = 1972-1985)

Record 1 of 38 - TREECD 1973-1999/10
TI: Spatial analysis of density dependent pattern in coniferous forest stands.
AU: Franklin-J; Michaelsen-J; Strahler-AH
AD: Department of Geography, University of California, Santa Barbara, CA 93106, USA.
SO: Vegetatio. 1985, 64: 1, 29-36; 38 ref.
PY: 1985
LA: English
AB: A study of relatively sparse Pinus ponderosa/P. jeffreyi stands in a 340-ha area of NE California, USA.
DE: Stand-characteristics; spacing-; conifers-
OD: Pinus-ponderosa; Pinus-jeffreyi
GE: USA-; California-
BT: Pinus; Pinaceae; Pinopsida; gymnosperms; Spermatophyta; plants; North-America; America; Pacific-States-of-USA; Western-States-of-USA; USA
CC: KK100; PP720
CD: Forestry-General; Biological-Resources-Plant
PT: Journal-article
IS: 0042-3106
UD: 960516
AN: 890637064
DC: 0F078
SM: P

Record 2 of 38 - TREECD 1973-1999/10
TI: Age distribution of western hemlock and its relation to Roosevelt elk populations in the South Fork Hoh River valley, Washington.
AU: Harmon-ME; Franklin-JF
AD: For. Sci. Lab., Corvallis, OR 97330, USA.
SO: Northwest-Science. 1983, 57: 4, 249-255; 17 ref.
PY: 1983
LA: English
AB: B.h. cores were taken from western hemlock (d.b.h. 5-90 cm) on a 2-ha plot on each of the upper and lower terraces in the valley. Total age of the trees was estimated. The age structure of western hemlock on terraces did not correspond well with estimated elk (Cervus elaphus roosevelti) populations. Periods of heavy establishment of western hemlock did not occur when elk declined. The results did not support the hypothesis that elk browsing is so severe that hemlock can establish only when elk populations are small.
DE: ecology-; Stand-characteristics; age-; conifers-
OD: Tsuga-heterophylla; deer-
GE: USA-; Washington-
ID: Cervus-elaphus-roosevelti
BT: Tsuga; Pinaceae; Pinopsida; gymnosperms; Spermatophyta; plants; Cervidae; ruminants; Artiodactyla; ungulates; mammals; vertebrates; Chordata; animals; North-America; America; Pacific-Northwest-States-of-USA; Pacific-States-of-USA; Western-States-of-USA; USA
CC: PP710; KK100; KK110
CD: Biological-Resources-Animal; Forestry-General; Silviculture
PT: Journal-article
IS: 0029-344X
UD: 960416
AN: 860612318
DC: 0F12; 0F0369
SM: F-P

Record 3 of 38 - TREECD 1973-1999/10
TI: Research natural areas: baseline monitoring and management. Proceedings of a symposium in Missoula, Montana, March 21, 1984.
AU: Johnson-JL; Franklin-JF; Krebill-RG (Coordinators)
AD: N. Region, USDA For. Serv., Missoula, MT, USA.
SO: General-Technical-Report,-Intermountain-Forest-and-Range-Experiment-Station,-USDA-Forest-Service. 1984, No. INT-173, ii + 84pp.; many ref.
PY: 1984
LA: English
AB: A collection of 15 papers that discuss effective monitoring of research natural areas in the USA and fire and grazing management in these areas.
DE: Nature-conservation; Research-; Forest-fires; management-; Grazing-
GE: USA-
ID: Research-natural-areas-baseline-monitoring-and-management
BT: North-America; America
CC: KK100; KK130; LL050; PP710; PP800; AA500; KK150; PP700
CD: Forestry-General; Forest-Fire-Management; Game-Farming,-Game-Management-and-Game-Utilization; Biological-Resources-Animal; Natural-Phenomena; Research; Other-Land-Use; Biological-Resources-General

PT: Conference-paper; Journal-article
UD: 960416
AN: 860612025
DC: 0F0119; 0F12; 0F062; 0F025; 0F152
SM: F-BN/USA

Record 4 of 38 - TREECD 1973-1999/10
TI: Establishment of conifers from seed on tephra deposited by the 1980 eruptions of Mount St. Helens, Washington.
AU: Frenzen-PM; Franklin-JF
AD: Dep. For. Sci., Oregon State Univ., Corvallis, OR 97331, USA.
SO: American-Midland-Naturalist. 1985, 114: 1, 84-97; 21 ref.
PY: 1985
LA: English
AB: [See FA 45, 5886] Seeds of Abies amabilis, A. procera, Pinus monticola, P. contorta, Pseudotsuga menziesii and Tsuga heterophylla were sown in Oct. 1980 on original soil or tephra deposited on 18 May on 4 sites 20 km NE of Mt. St. Helens. Plots were treated by tephra removal or cultivation of the surface crust, or by shading, and varied in tephra depth. Seedlings were examined in May-Oct. 1981 and in spring and autumn 1982. All 6 species were established on plots with tephra <20 cm deep. Cultivation of the surface crust produced more seedlings than tephra removal or untreated tephra. Seedlings grown on tephra were shorter regardless of surface treatment. The most important factors affecting establishment were: loss of seed before germination (mostly due to rodent predation and erosion); failure of emerging radicles to penetrate the surface crust; and drought and/or extreme surface temp. P. menziesii produced the best results.
DE: Volcanoes-; seeds-; seed-predation; Seedlings-; mortality-; soil-physics; structure-; Soil-types; volcanic-soils; pests-; emergence-; Conifers-; land-types; broadleaves-
OD: Abies-amabilis; Abies-procera; Pinus-monticola; Pinus-contorta; Tsuga-heterophylla; Pseudotsuga-menziesii
GE: USA-; Washington-
ID: volcanic-ash-land
BT: Spermatophyta; plants; animals; dicotyledons; angiosperms; Abies; Pinaceae; Pinopsida; gymnosperms; Pinus; Tsuga; Pseudotsuga; North-America; America; Pacific-Northwest-States-of-USA; Pacific-States-of-USA; Western-States-of-USA; USA
CC: KK100; JJ300; JJ400; FF160; FF100; FF900; PP800; FF600
CD: Forestry-General; Soil-Physics; Soil-Morphology,-Formation-and-Classification; Plant-Propagation; Plant-Production; Environmental-Tolerance-of-Plants; Natural-Phenomena; Pests,-Pathogens-and-Biogenic-Diseases-of-Plants
PT: Journal-article
IS: 0003-0031
UD: 960416
AN: 860610376
DC: 0F0531; 0F059
SM: F-Repr/2738

Record 5 of 38 - TREECD 1973-1999/10
TI: Subalpine coniferous forests of central Honshu, Japan.
AU: Franklin-JF; Maeda-T; Ohsumi-Y; Matsui-M; Yagi-H; Hawk-GM
AD: USDA For. Serv., Corvallis, OR 97331, USA.
SO: Ecological-Monographs. 1979, 49: 3, 311-334; 33 ref.
PY: 1979
LA: English
AB: Data from 150 mature virgin stands in four areas were subjected to similarity-ordination and association analyses. Three major forest communities were found: (1) Tsuga diversifolia/moss on stony soils with understories poor in vascular plants or dominated by ericads; (2) Abies spp./herb on a wide range of soils with luxuriant understories in which herbs and ferns are conspicuous; and (3) conifer/Sasa on deep fine-textured volcanic-ash soils with extremely dense layers of dwarf bamboo (Sasa spp.) 1-1.5 m in ht. The composition and structure are described for 11 community types and phases within these major groups. Successional trends are discussed and Japanese subalpine forests are compared with those in N. America.
DE: Vegetation-types; subalpine-forests; Synecology-
GE: Japan-
BT: East-Asia; Asia
CC: KK100; ZZ331
CD: Forestry-General; Plant-Ecology
PT: Journal-article
IS: 0012-9615
UD: 960416
AN: 860609139
DC: 0F0783
SM: F-P

Record 6 of 38 - TREECD 1973-1999/10
TI: Ecology of true fir.
AU: Packee-EC (et-al); Oliver-CD; Crawford-PD; Hopkins-WE; Hall-FC; Henderson-JA; Franklin-JF ; Oliver-CD (ed.); Kenady-RM
SO: In Proceedings of the biology and management of true fir in the Pacific Northwest symposium held in Seattle-Tacoma, Washington Feb. 24-26, 1981. Contribution,-Institute-of-Forest-Resources,-University-of-Washington. 1982, recd. 1985, No. 45, 19-69; 4 pl.; many ref.
PY: 1982
LA: English
AB: Five papers: Packee, E.C.; Oliver, C.D.; Crawford, P.D. Ecology of Pacific silver fir [Abies amabilis] 19-34 [2 pp. ref., 3 pl.] Hopkins, W.E. Ecology of white fir [A. concolor] 35-41 [19 ref.] Hall, F.C. Ecology of grand fir [A. grandis] 43-52 [40 ref.]

Henderson, J.A. Ecology of subalpine fir [A. lasiocarpa] 53-58 [23 ref.] Franklin, J.F. Ecology of noble fir [A. procera] 59-69 [34 ref., 1 pl.]
DE: Autecology-; conifers-
OD: Abies-amabilis; Abies-procera; Abies-concolor; Abies-grandis; Abies-lasiocarpa; Abies-
GE: North-America
ID: Biology-and-management-of-true-fir-in-the-Pacific-Northwest
BT: Abies; Pinaceae; Pinopsida; gymnosperms; Spermatophyta; plants; America
CC: KK100; PP720
CD: Forestry-General; Biological-Resources-Plant
PT: Conference-paper; Journal-article
UD: 960416
AN: 850604464
DC: 0F078
SM: BN/USA/Wash./Univ./Coll. For. Resour.

Record 7 of 38 - TREECD 1973-1999/10
TI: The true fir resource.
AU: Franklin-JF; Oliver-CD (ed.); Kenady-RM
SO: In Proceedings of the biology and management of true fir in the Pacific Northwest symposium held in Seattle-Tacoma, Washington Feb. 24-26, 1981. Contribution,-Institute-of-Forest-Resources,-University-of-Washington. 1982, recd. 1985, No. 45, 1-6; 13 ref.
PY: 1982
LA: English
AB: A brief description of the distribution of Abies spp. in North and Central America, Europe and Asia, and their importance as timber and specialty products (such as Christmas trees) and on catchment and recreation areas. Wood production and properties, silviculture and pests are also briefly covered.
DE: distribution-; silviculture-; insect-pests; fungal-diseases; Christmas-trees; Wood-properties; conifers-
OD: Abies-
GE: North-America; Central-America; Europe-; Asia-
ID: Biology-and-management-of-true-fir-in-the-Pacific-Northwest
BT: arthropod-pests; pests; animals; arthropods; invertebrates; insects; Pinaceae; Pinopsida; gymnosperms; Spermatophyta; plants; America
CC: KK100; PP720; KK110; KK510; FF100; KK160; KK540
CD: Forestry-General; Biological-Resources-Plant; Silviculture; Wood-Properties-and-Utilization; Plant-Production; Arboriculture; Forest-Products-Miscellaneous,-including-Minor-Forest-Products
PT: Conference-paper; Journal-article
UD: 960416
AN: 850604461
DC: 0F0782; 1F030; 0F03711; 0F090; 0F100; 0F0391; 1F093
SM: BN/USA/Wash./Univ./Coll. For. Resour.

Record 8 of 38 - TREECD 1973-1999/10
TI: Analysis of coniferous forest ecosystems in the western United States.
AU: Hawk-GM; Long-JN; Franklin-JF; Emmingham-WH; Reed-KL; Clark-SG; Lassoie-JP; Johnson-DW; Cole-DW; Bledsoe-CS; Cromack-K; Gessel-SP; Grier-CC; Richards-BN; Vogt-KA; Swanson-FJ; Fredriksen-RL; McCorison-FM; Gregory-SV; Sedell-JR; Campbell-AG; Triska-FJ; Wissmar-RC; Richey-JE; Devol-AH; Eggers-DM; Edmonds-RL
AD: Coll. For. Resour., Univ. Washington, Seattle, WA 98195, USA.
SO: 1982, recd. 1985, xvii + 419 pp.; 4 pl. US-IBP Synthesis Series No. 14; many ref.
PB: Hutchinson Ross Publishing Company; Stroudsburg, Pennsylvania; USA
PY: 1982
LA: English
AB: A contribution to the International Biological Program, containing 11 chapters by various authors: Edmonds, R.L. 1: Introduction. 1-27 [10 ref., 4 pl.] Hawk, G.M.; Long, J.N.; Franklin, J.F. 2: Relations between vegetation and environment. 28-44 [26 ref.] Emmingham, W.H. 3: Ecological indexes as a means of evaluating climate, species distribution, and primary production. 45-67 [3 pp. ref.] Reed, K.L.; Clark, S.G. 4: The niche and forest growth. 68-88 [23 ref.] Niche theory, its relations to ecological indexes and succession, and a model (SUCSIM) incorporating these. Long, J.N. 5: Productivity of western coniferous forests. 89-125 [7 pp. ref.] Lassoie, J.P. 6: Physiological activity in Douglas-fir. 126-185 [13 pp. ref.] Johnson, D.W.; Cole, D.W.; Bledsoe, C.S.; Cromack, K.; Edmonds, R.L.; Gessel, S.P.; Grier, C.C.; Richards, B.N.; Vogt, K.A. 7: Nutrient cycling in forests of the Pacific Northwest. 186-232 [5 pp. ref.] Previously noticed separately in FA 45, 1128. Swanson, F.J.; Fredriksen, R.L.; McCorison, F.M. 8: Material transfer in a western Oregon forested watershed. 233-266 [6 pp. ref.] Swanson, F.J.; Gregory, S.V.; Sedell, J.R.; Campbell, A.G. 9: Land-water interactions: the riparian zone. 267-291 [3 pp. ref.] Triska, F.J.; Sedell, J.R.; Gregory, S.V. 10: Coniferous forest streams. 292-332 [3 pp. ref.] Wissmar, R.C.; Richey, J.E.; Devol, A.H.; Eggers, D.M. 11: Lake ecosystems of the Lake Washington drainage basin. 333-385 [11 pp. ref.] An index and an appendix listing Coniferous Forest Biome Program publications are included.
DE: Synecology-; Vegetation-types; coniferous-forests; temperate-zones; riparian-forests; plant-physiology; CYCLING-; hydrology-; forest-litter; trees-; WATERSHEDS-; Streams-; ecology-; Erosion-; water-; conifers-
OD: Pseudotsuga-menziesii
GE: USA-; Oregon-; Washington-
RN: 7732-18-5
BT: woody-plants; Spermatophyta; plants; Pseudotsuga; Pinaceae; Pinopsida; gymnosperms; North-America; America; Pacific-Northwest-States-of-USA; Pacific-States-of-USA; Western-States-of-USA; USA
CC: KK100; PP210; PP400; ZZ331; PP200; KK140; FF060; FF061
CD: Forestry-General; Freshwater-and-Brackish-Water; Erosion-Soil-and-Water-Conservation;

Plant-Ecology; Water-Resources-General; Protection-Forestry; Plant-Physiology-and-Biochemistry; Plant-Nutrition
PT: Book
IB: 0-87933-382-0
UD: 960416
AN: 850602323
DC: 0F0111; 0F0783; 0F141; 0F055; 0F074
SM: U.581.5(78)

Record 9 of 38 - TREECD 1973-1999/10
TI: Forest succession and stand development research in the Northwest. Proceedings of the symposium held 26 March 1981 as part of the Northwest Scientific Association annual meetings at Oregon State University, Corvallis.
AU: Smith-DM; Franklin-JF; Means-JE
AD: PNWF&RES, USDA For. Serv., Corvallis, OR 97331, USA.
SO: 1982, iii + 170 pp.; many ref.
PB: Forest Research Laboratory, Oregon State University; Corvallis, Oregon; USA
PY: 1982
LA: English
AB: A symposium sponsored by the Northwest Scientific Association, the Pacific Northwest Forest and Range Experiment Station, and the School of Forestry, Oregon State University. After an introductory paper on patterns of development of forest stands (Smith, D.M.), there are 16 papers arranged in two sections (I -- Forest succession, II -- Stand development, noticed elsewhere in FA) and a concluding paper (Franklin, J.F.) reviewing the research described during the symposium.
DE: stand-characteristics; succession-
GE: USA-
ID: Forest-succession-and-stand-development-research-in-the-Northwest; Northwest-Scientific-Association; development-Pacific-Northwest; conferences-Pacific-Northwest
BT: North-America; America
CC: KK100; KK120; PP720
CD: Forestry-General; Forest-Mensuration-and-Management; Biological-Resources-Plant
PT: Conference-proceedings
AV: $6.00
UD: 960516
AN: 830683583
DC: 0F0119; 0F042; 0F078
SM: BN/USA/Oregon/State Univ./For. Res. Lab./Misc.

Record 10 of 38 - TREECD 1973-1999/10
TI: Effects of uneven-aged management on species composition [in western USA].
AU: Franklin-JF
AD: PNWF&RES, USDA For. Serv., Corvallis, OR, USA.
SO: In Uneven-aged silviculture and management in the United States. Combined proceedings of two in-service workshops held in Morgantown, West Virginia, July 15-17, 1975 and in Redding, California, October 19-21, 1976. General-Technical-Report,-USDA-Forest-Service,-Washington,-DC. 1978, recd. 1982, No. WO-24, 169-175; 2 ref.
PY: 1978
LA: English
DE: silvicultural-systems; stand-characteristics; composition-; silviculture-
GE: USA-
ID: Uneven-aged-silviculture-and-management-in-the-United-States; relation-to-ecology; Western-States
BT: North-America; America
CC: KK110; KK100; PP720
CD: Silviculture; Forestry-General; Biological-Resources-Plant
PT: Conference-paper; Journal-article
UD: 960516
AN: 820681707
DC: 0F0361; 0F078
SM: BN/USA

Record 11 of 38 - TREECD 1973-1999/10
TI: Congress Group 1.1: Forest ecosystems.
AU: Brunig-EF (Chairman); Grossman-WD; Schneider-TW; Kreysa-J; Ford-ED; Franklin-JF; Hendee-JC; Schoenfeld-C; Peek-J; Thai-Van-Trung
AD: Inst. World For., Univ. Hamburg, German Federal Republic.
SO: Proceedings, XVII IUFRO World Congress, Kyoto, Japan, Sept. 6-17, 1981.: Mlinsek, D. (Coordinator): Division 1: Forest environment and silviculture. 1981, 9-48.
PB: Japanese IUFRO Congress Committee.; Tsukuba, Ibaraki; Japan
PY: 1981
LA: English, French
AB: The 4 invited and 2 voluntary papers are listed below; abstracts of 8 posters presented are given on pp. 590-593.Brunig, E.F. Some methodological problems and possibilities in ecosystems research to link features of tropical forest physiognomy and structure with its dynamic processes. 10-20 [12 ref.]Grossman, W.D.; Schneider, T.W.; Kreysa, J. Dynamic system simulation as tool in studying and predicting complex biological and human-cultural ecosystems. [Not published]Ford, E.D. Catastrophy and disruption in forest ecosystems and their implications for plantation forestry. 21-36 [53 ref.]Franklin, J.F. Wilderness for baseline ecosystem studies. 37-48 [19 ref.]Hendee, J.C.; Schoenfeld, C.; Peek, J. Wilderness wildlife: research opportunities and limitations in designated wilderness areas of the United States. [Title only]Thai Van Trung [Tropical phytocoenology based on the ecosystem concept and applications in tropical silviculture.] Considerations generals en phytogenologie tropicale basees sur le concept 'ecosysteme' et applications en silviculture tropicale. [Title only]
DE: synecology-; methodology-; tropics-

GE: USA-
ID: Forest-ecosystems
BT: North-America; America
CC: KK110; ZZ900; KK100; PP720
CD: Silviculture; Techniques-and-Methodology; Forestry-General; Biological-Resources-Plant
PT: Conference-paper
UD: 960516
AN: 820680041
DC: 0F030; 0F0119; 0F078
SM: See Mlinsek, D. (1981) Div. 1

Record 12 of 38 - TREECD 1973-1999/10
TI: Ecological characteristics of old-growth Douglas-fir forests.
AU: Franklin-JF; Cromack-K Jr.; Denison-W; McKee-A; Maser-C; Sedell-J; Swanson-F; Juday-G
AD: PNWF&RES, USDA For. Serv., Portland, OR, USA.
SO: General-Technical-Report,-Pacific-Northwest-Forest-and-Range-Experiment-Station,-USDA-Forest-Service. 1981, No. PNW-118, iii + 48 pp.; 8 pl.; 71 ref.
PY: 1981
LA: English
AB: Species composition, function (rates and paths of energy flow and nutrient and water cycling) and structure of old-growth forests, in particular 350- to 750-yr-old Douglas fir/western hemlock forests in Washington and Oregon, are outlined and shown to differ significantly from those of young-growth forests. Most differences can be related to 4 key structural components: large live trees; large snags; large logs on land; and large logs in streams. A section on managing for old-growth forests and their attributes discusses how plans can be related to these 4 components.
DE: succession-; synecology-; ecology-; FOREST-MANAGEMENT; stand-characteristics; conifers-
OD: Pseudotsuga-menziesii; Tsuga-heterophylla
GE: USA-; Oregon-; Washington-
ID: climaxes; composition-of-plant-communities; nutrient-cycle; forest-types; ecological-aspects; development-stages
BT: Pseudotsuga; Pinaceae; Pinopsida; gymnosperms; Spermatophyta; plants; Tsuga; North-America; America; Pacific-Northwest-States-of-USA; Pacific-States-of-USA; Western-States-of-USA; USA
CC: KK100; ZZ331; KK120; FF061
CD: Forestry-General; Plant-Ecology; Forest-Mensuration-and-Management; Plant-Nutrition
PT: Miscellaneous
UD: 960516
AN: 820677732
DC: 0F0783; 0F055
SM: BN/USA

Record 13 of 38 - TREECD 1973-1999/10
TI: Natural history of Oregon coast mammals.
AU: Masser-C; Mate-BR; Franklin-JF; Dyrness-CT
AD: For. Sci. Lab., USDA For. Serv., Corvallis, OR, USA.
SO: General-Technical-Report,-Pacific-Northwest-Forest-and-Range-Experiment-Station,-USDA-Forest-Service. 1981, No. PNW-133, xix + 496 pp.; 31 pl.; 34 pp. ref.
PY: 1981
LA: English
AB: The geology and soils, vegetation and habitats, and land and marine mammals of the area are described. Habitats include coniferous and broadleaved forests and communities of lodgepole pine, sitka spruce/salal (Gaultheria shallon), lodgepole pine/rhododendron, and lodgepole pine/salal on stabilized sand dunes.
DE: vegetation-types; wildlife-; biology-
OD: Pinus-contorta; Picea-sitchensis
GE: Oregon-; USA-
ID: forest-types; ecology,-habitat
BT: Pinus; Pinaceae; Pinopsida; gymnosperms; Spermatophyta; plants; Picea; Pacific-Northwest-States-of-USA; Pacific-States-of-USA; Western-States-of-USA; USA; North-America; America
CC: PP710; KK100; ZZ331
CD: Biological-Resources-Animal; Forestry-General; Plant-Ecology
PT: Miscellaneous
UD: 960516
AN: 820677606
DC: 0F12; 0F0783
SM: BN/USA

Record 14 of 38 - TREECD 1973-1999/10
TI: Riparian vegetation in Oregon's Western Cascade Mountains: composition, biomass, and autumn phenology.
AU: Campbell-AG; Franklin-JF
AD: Sch. For., Oregon State Univ., Corvallis, OR, USA.
SO: Bulletin,-Coniferous-Forest-Biome,-US-International-Biological-Program. 1979, No. 14, vii + 90 pp.; 13 ref.
PY: 1979
LA: English
DE: vegetation-types; biomass-production; quantitative-techniques; synecology-; foliage-; seasonal-behaviour
GE: Oregon-; USA-
ID: riparian; composition-of-plant-communities
BT: Pacific-Northwest-States-of-USA; Pacific-States-of-USA; Western-States-of-USA; USA; North-America; America
CC: KK100; ZZ331; KK120; FF030
CD: Forestry-General; Plant-Ecology; Forest-Mensuration-and-Management; Plant-Morphology-and-Structure

PT: Miscellaneous
UD: 960516
AN: 820676306
DC: 0F0783; 0F043; 0F072
SM: BN/USA

Record 15 of 38 - TREECD 1973-1999/10
TI: H.J. Andrews Experimental Forest reference stand system: establishment and use history.
AU: Hawk-GM; Franklin-JF; McKee-WA; Brown-RB
AD: Sch. For., Oregon State Univ., Corvallis, OR, USA.
SO: Bulletin,-Coniferous-Forest-Biome,-US-International-Biological-Program. 1978, recd. 1980, No. 12, vii + 79 pp.; 28 ref.
PY: 1978
LA: English
AB: Nineteen 0.25-ha reference stands were established in the central W. Cascade Mountains of Oregon to represent widespread and important portions of the natural vegetation in the Tsuga heterophylla, transition, and Abies amabilis zones. Their species diversity, cover and structure are described, and the methods for establishment, mapping, collection of data and the use of the stands from 1972 to 1977 are discussed. From authors' summary.
DE: vegetation-types; synecology-; conifers-
GE: Oregon-; USA-
ID: ecology,-forest; composition-of-plant-communities; classification-of-communities
BT: Pacific-Northwest-States-of-USA; Pacific-States-of-USA; Western-States-of-USA; USA; North-America; America
CC: KK100; ZZ331
CD: Forestry-General; Plant-Ecology
PT: Miscellaneous
UD: 960516
AN: 820676255
DC: 0F0783
SM: BN/USA

Record 16 of 38 - TREECD 1973-1999/10
TI: Chapters 12-16. Case histories.
AU: Cottam-G (et-al); Cleve-K-van; Viereck-LA; Franklin-JF; Hemstrom-MA; Christensen-NL; Peet-RK; Gomez-Pompa-A; Vasquez-Yanes-C
AD: Dep.Bot., Univ. Wisconsin, Madison, WI 53705, USA.
SO: West,-D.-C.;-Shugart,-H.-H.;-Botkin,-D.-B.-:-Forest-succession.-Concepts-and-application. 1981, 179-266.
PB: Springer-Verlag New York Inc.; New York; USA
PY: 1981
LA: English
AB: Cottam, G. Patterns of succession in different forest ecosystems 179-184. - An introduction to the section which includes studies from the USA and Mexico. Cleve, K. van; Viereck, L.A. Forest succession in relation to nutrient cycling in the boreal forest of Alaska. 185-211. Franklin, J.F.; Hemstrom, M.A. Aspects of succession in the coniferous forests of the Pacific Northwest. 212-229. Christensen, N.L.; Peet, R.K. Secondary forest succession on the North Carolina Piedmont. 230-245. Gomez-Pompa, A.; Vazquez-Yanes, C. Successional studies of a rain forest in Mexico. 246-266.
DE: succession-; vegetation-types; rain-forests; boreal-forests
GE: Mexico-; North-Carolina; Alaska-; USA-
ID: USA,-Pacific-Northwest; nutrient-cycle; coniferous-forest,-temperate-subarctic
BT: North-America; America; Appalachian-States-of-USA; Southern-States-of-USA; USA; South-Atlantic-States-of-USA; Pacific-States-of-USA; Western-States-of-USA
CC: KK100; PP720; FF061
CD: Forestry-General; Biological-Resources-Plant; Plant-Nutrition
PT: Miscellaneous
UD: 960516
AN: 820674610
DC: 0F078; 0F055
SM: See West, D.C. et al. (1981) Forest succession.....

Record 17 of 38 - TREECD 1973-1999/10
TI: Ecological site classification activities in Oregon and Washington.
AU: Franklin-JF
AD: PNWF&RES, USDA For. Serv., Portland, OR, USA.
SO: Forestry-Chronicle. 1980, 56: 2, 68-70; 19 ref.
PY: 1980
LA: English
LS: French
DE: site-types; classification-; soil-fertility; SITE-CLASS-ASSESSMENT; forests-
GE: Oregon-; USA-; Washington-
ID: forest-site-classification
BT: Pacific-Northwest-States-of-USA; Pacific-States-of-USA; Western-States-of-USA; USA; North-America; America
CC: KK100; ZZ331; JJ600
CD: Forestry-General; Plant-Ecology; Soil-Fertility
PT: Journal-article
IS: 0015-7546
UD: 960516
AN: 810675211
DC: 0F0783

Record 18 of 38 - TREECD 1973-1999/10
TI: Section II: Terrestrial ecosystems.
AU: Waring-RH (Editor); Franklin-JF; Carroll-GC; Parkinson-D; Harris-WF; Santantonio-D;

McGinty-D; Waring-RH
SO: Forests:-fresh-perspectives-from-ecosystem-analysis. 1980, 59-136.
PB: Oregon State University Press.; Corvallis, Oregon; USA
PY: 1980
LA: English
AB: Five chapters examining the operation of forest canopies, soil microbes and root systems as independent subsystems: Franklin, J.F.; Waring, R.H. Distinctive features of the northwestern coniferous forest: development, structure and function [pp. 59-86 ; 68 ref.] Carroll, G.C. Forest canopies: complex and independent subsystems [pp. 87-107, 48 ref., 2 pl.] Parkinson, D. Aspects of the microbial ecology of forest ecosystems [pp. 109-117, 20 ref.] Harris, W.F.; Santantonio, D.; McGinty, D. The dynamic belowground ecosystem [pp. 119-129, 53 ref.] Waring, R.H. Vital signs of forest ecosystems [pp. 131-136, 27 ref.] A discussion of diagnostic aids for 'sick' ecosystems - distribution of N in fresh and fallen leaves, seasonal patterns of photosynthesis and moisture stress, and growth of sapwood b.a.
DE: precipitation-; solutes-; roots-; quantitative-techniques; vegetation-types; synecology-; ecology-; canopy-
OD: bacteria-; fungi-
ID: hydrological-aspects; systems,-distribution; USA,-north-western; composition-of-plant-communities; nutrient-cycle; layer-structure-of-plant-communities
BT: prokaryotes
CC: KK100; PP720; FF600; FF062; FF061
CD: Forestry-General; Biological-Resources-Plant; Pests,-Pathogens-and-Biogenic-Diseases-of-Plants; Plant-Water-Relations; Plant-Nutrition
PT: Miscellaneous
UD: 960516
AN: 810672678
DC: 0F078; 0F091; 0F094; 0F054; 0F055
SM: See Waring, R.H. (1980)

Record 19 of 38 - TREECD 1973-1999/10
TI: A comparison of habitat type and elevation for seed zone classification of Douglas-fir in western Oregon.
AU: Campbell-RK; Franklin-JF
AD: PNW F&RES, USDA For. Serv., Corvallis, OR 97331, USA.
SO: Forest-Science. 1981, 27: 1, 49-59; 19 ref.
PY: 1981
LA: English
AB: Habitat types (13), alt. (6 zones of 175 m between 500 and 1600 m) and tree genotypes were sampled in a 6100-ha catchment area in the H. J. Andrews Experimental Forest. Genotypic values were obtained from the offspring of 190 parent trees from 114 locations in the area, grown for 3 yr in a nursery bed and measured for 16 traits. The amount of genetic variation explained by habitat and/or alt. was analysed in classification and regression models. Neither were completely satisfactory for classifying environments into zones: alt. explained only 56% of source-related genetic variation and habitat type 35%; a combination of the 2 did not improve the classification.
DE: plant-breeding; variation-; genetics-; seeds-; conifers-
OD: Pseudotsuga-menziesii; Pseudotsuga-
GE: Oregon-; USA-
BT: Pseudotsuga; Pinaceae; Pinopsida; gymnosperms; Spermatophyta; plants; Pacific-Northwest-States-of-USA; Pacific-States-of-USA; Western-States-of-USA; USA; North-America; America
CC: KK100; FF020; KK110
CD: Forestry-General; Plant-Breeding-and-Genetics; Silviculture
PT: Journal-article
IS: 0015-749X
UD: 960516
AN: 810671093
DC: 0F081; 0F031

Record 20 of 38 - TREECD 1973-1999/10
TI: Distribution, genetics and silvical characteristics.
AU: Callaham-RZ (Chairman); Sziklai-O; De-Vescovi-MA; Critchfield-WB; Harris-AS; Franklin-JF ; Sorensen-FC; Campbell-RK; Steinhoff-RJ
SO: International Union of Forestry Research Organizations: Proceedings of the IUFRO joint meeting of working parties, Vancouver, Canada 1978. 2 vols. 1980, 51-139.
PB: Ministry of Forests, Information Services Branch.; Victoria, BC; Canada
PY: 1980
LA: English
AB: Of Douglas fir (Sziklai, O.; De-Vescovi, M.A.; 14 pp., 24 ref.); lodgepole pine (Critchfield, W.B.; 30 pp., 138 ref.); Sitka spruce (Harris, A.S.; 28 pp., 133 ref.); Abies grandis/A. concolor/A. c. lowiana (Steinhoff, R.J.; 10 pp., 40 ref.); and Abies procera/A. magnifica/A. m. shastensis (Franklin, J.F.; Sorensen, F.C.; Campbell, R.K.; 7 pp., 13 ref.)
DE: silvicultural-characters; distribution-; plant-breeding; conifers-; pines-
OD: Pseudotsuga-menziesii; Pinus-contorta; Picea-sitchensis; Abies-grandis; Abies-concolor; Abies-procera; Abies-magnifica; Pseudotsuga-; Pinus-; Picea-; Abies-
ID: Abies-concolor-lowiana; Abies-magnifica-shastensis; silvicultural-characters-of-trees; distribution-(natural-range)
BT: Pseudotsuga; Pinaceae; Pinopsida; gymnosperms; Spermatophyta; plants; Pinus; Picea; Abies
CC: KK110; KK100; PP720; FF020
CD: Silviculture; Forestry-General; Biological-Resources-Plant; Plant-Breeding-and-Genetics
PT: Conference-paper
UD: 960516
AN: 810668155

DC: 0F031; 0F071; 0F0782; 0F081
SM: See IUFRO (1980) Proc...Vancouver 1978

Record 21 of 38 - TREECD 1973-1999/10
TI: Seeding habits of upper-slope tree species. IV. Seed flight of noble fir and Pacific silver fir.
AU: Carkin-RE; Franklin-JF; Booth-J; Smith-CE
AD: PNW F&RES, USDA For. Serv., Portland, OR 97208, USA.
SO: USDA-Forest-Service-Research-Note,-Pacific-Northwest-Forest-and-Range-Experiment-Station. 1978, No. PNW-312, 10 pp.; 9 ref.
PY: 1978
LA: English
AB: [See FA 36, 704-5] Seed traps were set at distances of up to 114 m from the felled E. and W. edges of stands of noble (Abies procera) and Pacific silver (A. amabilis) firs in 4 areas in Oregon and Washington in 1968-9 and 1971-2. There was a rapid decline in seed fall with distance from stand edge. Sound and unsound seed of A. procera travelled similar distances but unsound seed of A. amabilis travelled further than sound seed; % sound seed was higher for A. amabilis in the same seed year. The results suggest that the amount of seed reaching 114 m in a good year (33 000 for A. procera, 125 000 for A. amabilis) should be sufficient for adequate natural regeneration of small clear felled areas. Differences of dispersal in E. and W. directions were more related to stand condition than to direction.
DE: NATURAL-REGENERATION; assessment-; seeds-; dispersal-; conifers-
OD: Abies-amabilis; Abies-procera; Abies-
GE: Oregon-; USA-; Washington-
BT: Abies; Pinaceae; Pinopsida; gymnosperms; Spermatophyta; plants; Pacific-Northwest-States-of-USA; Pacific-States-of-USA; Western-States-of-USA; USA; North-America; America
CC: PP720; KK100; KK110
CD: Biological-Resources-Plant; Forestry-General; Silviculture
PT: Miscellaneous
UD: 960516
AN: 800665253
DC: 0F075; 0F0362
SM: BN/USA

Record 22 of 38 - TREECD 1973-1999/10
TI: IV. Vegetation of the Douglas-fir region.
AU: Franklin-JF; Heilman-PE (ed.); Anderson-HW (ed.); Baumgartner-DM
AD: PNW F&RES, USDA For. Serv., Corvallis, OR, USA.
SO: Forest-soils-of-the-Douglas-fir-region. 1979, 93-112; 8 pl.; 36 ref.
PB: Cooperative Extension Service, Washington State University.; Pullman, Washington; USA
PY: 1979
LA: English
AB: The major compositional, structural and successional features of the forests of this area (western Washington, Oregon, and northwestern California) are outlined. The region represents the maximal development of the temperate coniferous forest, with areas dominated by Douglas-fir, climax forests of western hemlock and western redcedar (Thuja plicata), and coastal rain forests of coast redwood (Sequoia sempervirens) and Sitka spruce.
DE: vegetation-types; synecology-
OD: Picea-sitchensis; Pseudotsuga-menziesii; Tsuga-heterophylla; Sequoia-sempervirens; Thuja-plicata
GE: USA-; California-; Oregon-; Washington-
ID: forest-types; composition-of-plant-communities
BT: Picea; Pinaceae; Pinopsida; gymnosperms; Spermatophyta; plants; Pseudotsuga; Tsuga; Sequoia; Taxodiaceae; Thuja; Cupressaceae; North-America; America; Pacific-States-of-USA; Western-States-of-USA; USA; Pacific-Northwest-States-of-USA
CC: KK100; JJ000; ZZ331
CD: Forestry-General; Soil-Science; Plant-Ecology
PT: Miscellaneous
UD: 960416
AN: 800662368
DC: 0F053; 0F0783
SM: See Heilman, P. E. (1979)

Record 23 of 38 - TREECD 1973-1999/10
TI: Simulation modeling and resource management.
AU: Franklin-JF
AD: PNW F&RES, USDA For. Serv., Corvallis, OR 97331, USA.
SO: Special fire issue. Environmental-Management. 1979, 3: 1, 2-5; 4 ref.
PY: 1979
LA: English
DE: FOREST-FIRES
ID: systems-analysis-and-simulation
CC: PP800; KK130; KK100; CC300
CD: Natural-Phenomena; Forest-Fire-Management; Forestry-General; Information-and-Library-Sciences
PT: Journal-article
IS: 0364-152X
UD: 960416
AN: 800659972
DC: 0F060; 0F0129
SM: See Environmental Management...fire (1979)

Record 24 of 38 - TREECD 1973-1999/10
TI: Effects of uneven-aged management on species composition.
AU: Franklin-JF

AD: PNW F&RES, USDA For. Serv., Corvallis, Ore., USA.
SO: Uneven-aged silviculture and management in the western United States. Proceedings, In-Service Workshop, Redding, California, Oct. 19-21, 1976. 1977, 64-70; 2 ref.
PY: 1977
LA: English
AB: The effects of selection cutting on species composition are discussed for different forest types and preferred species in the western USA in relation to shade tolerance, dominance, competition and habitat type.
DE: felling-; selection-; synecology-; silviculture-; silvicultural-systems
GE: USA-
ID: composition-of-plant-communities; USA,-western
BT: North-America; America
CC: KK110
CD: Silviculture
PT: Conference-paper
UD: 960416
AN: 780649829
DC: 0F0361
SM: Reprint/1214

Record 25 of 38 - TREECD 1973-1999/10
TI: Errors from application of western hemlock site curves to mountain hemlock.
AU: Herman-FR; Franklin-JF
AD: Pacific Northwest F&RES, Portland, Ore., USA.
SO: USDA-Forest-Service-Research-Note,-Pacific-Northwest-Forest-and-Range-Experiment-Station. 1976, No. PNW-276, 8 pp.; 6 ref.
PY: 1976
LA: English
AB: Eleven dominant and codominant mountain hemlock (Tsuga mertensiana) trees, 201-284 yr old, were felled and sectioned for stem analysis. Actual ht. at 100 yr was compared with the ht. predicted from western hemlock (T. heterophylla) site curves. In each case site index was considerably overestimated. The av. predicted ht. was 88 ft and av. actual ht. 63 ft. Depending on the min. diam. used, this overestimation leads to errors of 60-85% in cu. ft vol. and 120-240% in bd-ft vol. Until site index curves and yield tables are available for T. mertensiana, forest managers are advised to develop local ones or make a crude adjustment to T. heterophylla yield tables.
DE: increment-; measurement-tables; site-class-assessment; growth-; yield-tables; conifers-; yields-
OD: Tsuga-heterophylla; Tsuga-mertensiana
GE: Oregon-; USA-; Washington-
BT: Tsuga; Pinaceae; Pinopsida; gymnosperms; Spermatophyta; plants; Pacific-Northwest-States-of-USA; Pacific-States-of-USA; Western-States-of-USA; USA; North-America; America
CC: KK120
CD: Forest-Mensuration-and-Management
PT: Miscellaneous
UD: 960416
AN: 780645176
DC: 0F0431

Record 26 of 38 - TREECD 1973-1999/10
TI: Ecological classification of forest land in Canada and Northwestern U.S.A. September 30-October 2, 1977, Vancouver, B.C.
AU: Kimmins-JP; Krajina-VJ; Schmidt-RL; Klinka-K; Annas-RM; Senyk-JP; Toovey-JW; Grandtner-MM; Vaucamps-F; Burger-D; Jurdant-M; Ducruc-JP; Murtha-PA; Rowe-JS; Kojima-S; Krumlik-GJ; Veldhuis-H; Gerardin-V; Weetman-GF; Beanlands-KJS; Zoltai-SC; Franklin-JF; Eyre-FH; Thie-J; Minore-D
CA: Canada, Canadian Institute of Forestry, Forest Ecology Working Group;
Canada, University of British Columbia, Centre for Continuing Education.
SO: 1977, vi + 395 pp.; many ref.
PB: University of British Columbia.; Vancouver; Canada
PY: 1977
LA: English
AB: The proceedings of a symposium, consisting of 26 papers and lists of speakers and participants. Three of the papers are noticed separately in FA; the others are:Kimmins, J.P. On the need for ecological classifications of forests. [2 ref.]Krajina, V.J. On the need for an ecosystem approach to forest land management. [22 ref.]Schmidt, R.L. Activities of the B.C. [British Columbia] Forest Service in ecological classification.[8 ref.]Klinka, K. Application of synecological classification in second growth management.Annas, R.M. Biogeoclimatic classification in the B.C. Forest Service.Senyk, J.P. Ecological land classification activities: Canadian Forestry Service - Victoria. [7 ref.]Toovey, J.W. Activities of forest companies in British Columbia. - Case studies of land classification on lands licensed by 3 companies.Grandtner, M.M.; Vaucamps, F. Floristic classification in Canada. [49 ref.]Burger, D. Physiographic site classification in Ontario. [10 ref.]Jurdant, M.; Ducruc, J.P. [Ecological land classification: an integrated land resources survey.] La classification ecologique du territoire: un inventaire integre des ressources naturelles renouvelables. [Fr, en, 39 ref.]Murtha, P.A. Remote sensing as a tool in ecological classification. [20 ref.]Rowe, J.S. The common denominator of land classification in Canada; an ecological approach to mapping. - The 'landform' or 'landform pattern' is the natural unit of ecological mapping.Kojima, S.; Krumlik, G.J. Ecological classification of forests in Alberta. [20 ref.]Veldhuis, H. Land and site classification in Manitoba and Saskatchewan. [19 ref.] With special reference to Manitoba.Burger, D. Research, application and teaching of ecological site classification in Ontario. [15 ref.]Jurdant, M.; Gerardin, V. [Ecological land classification in Quebec: a tool for environmental management.] La classification ecologique du territoire au Quebec: un outil pour la gestion de

l'environnement. [Fr, en, 20 ref.]Weetman, G.F. Ecological land classification in New Brunswick and Nova Scotia [14 ref.]Beanlands, K.J.S. Ecological classification of forest land in Newfoundland and Labrador. [98 ref.]Zoltai, S.C. Ecological land classification in Northern Canada. [22 ref.]Franklin, J.F. Ecological site classification activities in Oregon and Washington. [16 ref.]Weetman, G.F. Canadian involvement in the revision of ' Forest cover types of North America'.Eyre, F.H.; Minore, D. Revising 'Forest cover types of North America' - plans and progress.Thie, J. The Canada Committee on Ecological (biophysical) Land Classification, its history, objectives and activities. [17 ref.]
DE: vegetation-types; synecology-; land-classification; classification-; FOREST-MANAGEMENT; site-types; site-class-assessment; topography-; remote-sensing
GE: Canada-; USA-
ID: forest-site-classification; USA,-north-western; composition-of-plant-communities; ecological-aspects; vegetation,-general; vegetation-studies
BT: North-America; America
CC: KK100; KK120
CD: Forestry-General; Forest-Mensuration-and-Management
PT: Conference-proceedings
UD: 960416
AN: 780643151
DC: 0F0217; 0F050

Record 27 of 38 - TREECD 1973-1999/10
TI: Influence of year of cone collection on seed weight and cotyledon number in Abies procera.
AU: Sorensen-FC; Franklin-JF
AD: Pacific NW F&RES, USDA For. Serv., Corvallis, Ore. 97331, USA.
SO: Silvae-Genetica. 1977, 26: 41-43; 20 ref.
PY: 1977
LA: English
LS: German
AB: Seed wt. (SW) and cotyledon number (CN) were determined on individual seeds collected from the same trees at 4 locations (in Washington and Oregon) in 1967 and 1968. Year and year-interaction effects accounted for 25% of the variation in CN and for 45% of the variation in SW. Correlation between SW and CN was not significant when based on individual seeds within trees. Evidence for the adaptive importance of CN and its independence of SW is discussed. From authors' summary.
DE: seeds-; weight-; variation-; seed-production; geographical-races; seedlings-; conifers-; forest-trees
OD: Abies-procera; Abies-
GE: USA-; Oregon-; Washington-
BT: Spermatophyta; plants; trees; woody-plants; Abies; Pinaceae; Pinopsida; gymnosperms; North-America; America; Pacific-Northwest-States-of-USA; Pacific-States-of-USA; Western-States-of-USA; USA
CC: KK110; FF160; FF020
CD: Silviculture; Plant-Propagation; Plant-Breeding-and-Genetics
PT: Journal-article
IS: 0037-5349
UD: 960416
AN: 770642533
DC: ODC032

Record 28 of 38 - TREECD 1973-1999/10
TI: Self-pollination effects on seed and seedling traits in Noble Fir.
AU: Sorensen-FC; Franklin-JF; Woollard-R
AD: USDA For. Serv., Corvallis, Ore., USA.
SO: Forest-Science. 1976, 22: 2, 155-159; 13 ref.
PY: 1976
LA: English
AB: [Cf. FA 36, 5439] Ten Abies procera trees growing at 1300 m alt in the Cascade Mts, Oregon, yielded an average of only 69% as many sound seed after self-pollination as after cross-pollination in 1968. The origin of pollen did not affect seed weight, germination % or seedling survival over a 3-year period, but inbreeding depression of 3-year height growth reached 24% in offspring of selfed parents.
DE: pollination-; seed-production; tree-breeding; conifers-
OD: Abies-procera
GE: Oregon-; USA-
ID: cross-vs-self; inbreeding-effects
BT: Abies; Pinaceae; Pinopsida; gymnosperms; Spermatophyta; plants; Pacific-Northwest-States-of-USA; Pacific-States-of-USA; Western-States-of-USA; USA; North-America; America
CC: KK100; FF060; FF020
CD: Forestry-General; Plant-Physiology-and-Biochemistry; Plant-Breeding-and-Genetics
PT: Journal-article
IS: 0015-749X
UD: 960416
AN: 760633525
DC: ODC1815214; ODC1653

Record 29 of 38 - TREECD 1973-1999/10
TI: A preliminary classification of forest communities in the central portion of the Western Cascades in Oregon.
AU: Dyrness-CT; Franklin-JF; Moir-WH
SO: Bulletin,-Coniferous-Forest-Biome. 1974, No. 4, viii + 123 pp.; 19 ref.
PY: 1974
LA: English
AB: Ordination techniques were applied to survey data and it is concluded that the forest communities in this area are related to moisture and temperature gradients. Two distinct

zones are distinguished, zone (a) dominated by Tsuga heterophylla (at altitudes of 300 to 1050 m) and zone (b) by Abies amabilis (1050 to 1550 m), and the distribution of these zones is shown to be a function of the temperature/altitude relation. Eleven climax or subclimax associations and three seral communities are distinguished within (a) and seven climax or subclimax associations and two seral communities within (b); the characteristics of these 23 communities are described.
DE: vegetation-types; classification-; synecology-; climatic-factors; conifers-
OD: Abies-amabilis; Tsuga-heterophylla
GE: Oregon-; USA-
ID: forest-types; vegetation,-general; composition-of-plant-communities-in-relation; classification-of-communities
BT: Abies; Pinaceae; Pinopsida; gymnosperms; Spermatophyta; plants; Tsuga; Pacific-Northwest-States-of-USA; Pacific-States-of-USA; Western-States-of-USA; USA; North-America; America
CC: KK100; PP720; AA500
CD: Forestry-General; Biological-Resources-Plant; Research
PT: Miscellaneous
UD: 960416
AN: 760632461
DC: ODC187795; ODC1825; ODC1822

Record 30 of 38 - TREECD 1973-1999/10
TI: Research Natural Area needs in the Pacific Northwest. A contribution to land-use planning.
AU: Dyrness-CT; Franklin-JF; Maser-C; Cook-SA; Hall-JD; Faxon-G
SO: USDA-Forest-Service-General-Technical-Report,-Pacific-Northwest-Forest-and-Range-Experiment-Station. 1975, No. PNW-38, 231 pp.; 33 ref.
PY: 1975
LA: English
AB: Comprises a report on the Natural Area Needs Workshop held between 29 Nov. and 1 Dec. 1973 at Wemme, Oregon. Natural Areas are defined as tracts of land on which natural features (e.g. forest ecosystems, habitats, organisms) are preserved in a state as nearly undisturbed as possible, for scientific and educational purposes. It is suggested that a further 300 Natural Areas should be designated in addition to the 60 already established in Oregon and Washington.
DE: nature-conservation; nature-reserves
ID: USA,-Pacific-Northwest
CC: KK150
CD: Other-Land-Use
PT: Miscellaneous
UD: 960416
AN: 760631614
DC: ODC907079

Record 31 of 38 - TREECD 1973-1999/10
TI: Proceedings of the First International Congress of Ecology. Structure, functioning and management of ecosystems. The Hague, Netherlands, September 8-14, 1974.
AU: Cave-AJ (Congress-Secretary); Iwaki-H; Pandeya-SC; Weetman-GF; Franklin-JF; Tamm-CO; Likens-GE; Bormann-FH; Boerboom-JHA; Freson-R; Goffinet-G; Malaisse-F
SO: 1974, 414 pp.
PB: Pudoc.; Wageningen; Netherlands
PY: 1974
LA: English
AB: A collection of some 100 abstracts and papers presented at the Congress. Many of the papers are of a general or theoretical nature, or deal with non-forest ecosystems, but several are concerned partly or entirely with forest ecosystems, and these include: Comparative productivity of terrestrial ecosystems in Japan, with emphasis on the comparison between natural and agricultural systems (H. Iwaki; 35 ref.); Dynamics of net primary productivity of grazing land and forest ecosystems in Western India (S.C. Pandeya; 14 ref.); The stability of Canadian boreal forest ecosystems (G.F. Weetman; 23 ref.); Predicting short and long term changes in the function and structure of temperate forest ecosystems (J.F. Franklin; 8 ref.); Experiments to analyse the behaviour of young Spruce forest at different nutrient levels (C.O. Tamm; 12 ref.); Effects of forest clearing on the northern hardwood forest ecosystem and its biogeochemistry (G.E. Likens; F.H. Bormann; 18 ref.); Succession studies in the humid tropical lowlands of Surinam (J. H.A. Boerboom; 2 ref.); and Ecological effects of the regressive succession muhulu-miombo-savanna in Upper Shaba, Zaire (R. Freson; G. Goffinet; F. Malaisse; 17 ref.).
ADDITIONAL ABSTRACT: 99 papers were presented at the conference of which 18 are of relevance to grasslands and have been abstracted in HbA.
DE: plant-nutrition; ecology-; clear-felling; succession-
OD: Picea-abies
GE: Japan-; India-; Canada-; SURINAME-; Zaire-; Netherlands-
ID: agriculture-forestry-relations,-general; ecological; biological-production-of-forests-and-trees
BT: Picea; Pinaceae; Pinopsida; gymnosperms; Spermatophyta; plants; East-Asia; Asia; South-Asia; North-America; America; South-America; Central-Africa; Africa-South-of-Sahara; Africa; Western-Europe; Europe
CC: KK100; ZZ331; FF061; KK000; PP720
CD: Forestry-General; Plant-Ecology; Plant-Nutrition; Forestry,-Forest-Products-and-Agroforestry; Biological-Resources-Plant
PT: Conference-proceedings
UD: 960416
AN: 740620768
DC: ODC18; ODC971; ODC187; ODC1822

Record 32 of 38 - TREECD 1973-1999/10

TI: Seeding habits of upper-slope tree species. I. A 12-year record of cone production.
AU: Franklin-JF; Carkin-R; Booth-J
SO: USDA-Forest-Service-Research-Note,-Pacific-Northwest-Forest-and-Range-Experiment-Station. 1974, No. PNW-213, 12 pp.; 2 ref.
PY: 1974
LA: English
AB: A further report on cone crops on 52 plots in Oregon and Washington in 1961-1972 [cf. FA 30, 3844]. Tables are given for Abies spp., Picea engelmannii, Tsuga mertensiana, Pinus monticola. Medium to heavy crops occur at 2- to 3-year intervals at most locations.
DE: cones-; production-; conifers-
OD: Abies-; Picea-engelmannii; Tsuga-mertensiana; Pinus-monticola
BT: Pinaceae; Pinopsida; gymnosperms; Spermatophyta; plants; Picea; Tsuga; Pinus
CC: KK110; FF160
CD: Silviculture; Plant-Propagation
PT: Miscellaneous
UD: 960416
AN: 740617946
DC: ODC232311

Record 33 of 38 - TREECD 1973-1999/10
TI: Effects of various harvesting methods on forest regeneration.
AU: Franklin-JF; DeBell-DS
SO: Even-age management. Symposium held August 1, 1972. 1973, 29-57; Paper, School of Forestry, Oregon State University No. 848; 51 ref.
PB: School of Forestry, Oregon State University.; Corvallis, Oregon; USA
PY: 1973
LA: English
AB: A review of US literature on the effects of different felling systems on forest regeneration under even-aged management. For most forest types and species, on most sites, it is concluded that various felling methods have suited the ecological requirements of the tree species and that the choice of method has depended more on economic and social than on ecological factors except for more severe sites, e.g. where moisture and temperature were major problems. Two major forest regions (the Douglas Fir region, and the Southern Pine and bottomland hardwood region) are discussed in more detail.
DE: NATURAL-REGENERATION; felling-; silvicultural-systems
GE: USA-
ID: relation-to-types-of-felling-and-logging
BT: North-America; America
CC: KK110; KK120
CD: Silviculture; Forest-Mensuration-and-Management
PT: Conference-paper
UD: 960416
AN: 740617871
DC: ODC221; ODC231; ODC62

Record 34 of 38 - TREECD 1973-1999/10
TI: Seeding habits of upper-slope tree species. III. Dispersal of White and Shasta Red Fir seeds on a clearcut.
AU: Franklin-JF; Smith-CE
SO: Franklin, J. F.; Smith, C. E. : Seeding habits of upper-slope tree species. II. Dispersal of a Mountain Hemlock seedcrop on a clearcut. USDA-Forest-Service-Research-Note,-Pacific-Northwest-Forest-and-Range-Experiment-Station. 1974, No.PNW-215, 9 pp.; 8 ref.
PY: 1974
LA: English
AB: The dispersal of seeds of Abies magnifica var. shastensis and A. concolor in a 40-acre clear-felled area in the Oregon High Cascades was studied in 1968 and 1971 (very heavy seed-years). The number of seeds declined rapidly from the stand edge; indications that seeds were carried further in the direction of prevailing winds were not statistically significant. Central parts of the clearing received ca. 30 000 seeds/acre. These results are discussed in relation to types of felling and it is concluded that strip clear-felling or shelterwood systems would ensure an adequate seed supply and favourable conditions for seedling establishment.
DE: seeds-; dispersal-; NATURAL-REGENERATION; silvicultural-systems; conifers-
OD: Abies-concolor; Tsuga-mertensiana
ID: Abies-magnifica-shastensis; relation-to-types-of-felling-and-logging
BT: Abies; Pinaceae; Pinopsida; gymnosperms; Spermatophyta; plants; Tsuga
CC: KK100; FF060; KK110
CD: Forestry-General; Plant-Physiology-and-Biochemistry; Silviculture
PT: Miscellaneous
UD: 960416
AN: 740617745
DC: ODC181523; ODC221; ODC231; ODC231

Record 35 of 38 - TREECD 1973-1999/10
TI: Lost Forest Research Natural Area. Supplement No. 3 to 'Federal Research Natural Areas in Oregon and Washington: a guidebook for scientists and educators'.
AU: Moir-WH; Franklin-JF; Maser-C
SO: 1973, 17 pp.; See FA 34, 4338; 28 ref.
PB: Portland, Oregon, Pacific Northwest Forest and Range Experiment Station.; USA
PY: 1973
LA: English
DE: nature-conservation; nature-reserves
GE: Oregon-; USA-; Washington-
BT: Pacific-Northwest-States-of-USA; Pacific-States-of-USA; Western-States-of-USA; USA;

North-America; America
CC: KK150
CD: Other-Land-Use
PT: Miscellaneous
UD: 960416
AN: 740616977
DC: ODC907079

Record 36 of 38 - TREECD 1973-1999/10
TI: Natural vegetation of Oregon and Washington.
AU: Franklin-JF; Dyrness-CT
SO: USDA-Forest-Service-General-Technical-Report,-Pacific-Northwest-Forest-and-Range-Experiment-Station. 1973, No. PNW-8, 417 pp.; 27 pp. of ref.
PY: 1973
LA: English
AB: This book is based on earlier work [see FA 31, 2284] but contains much new information and a number of appendices including an index to plant communities and brief definitions of the principal soil types. Descriptions of each vegetation zone include composition and succession, as well as variations associated with environmental gradients.
DE: vegetation-types
GE: Oregon-; USA-; Washington-
BT: Pacific-Northwest-States-of-USA; Pacific-States-of-USA; Western-States-of-USA; USA; North-America; America
CC: KK100; PP720
CD: Forestry-General; Biological-Resources-Plant
PT: Miscellaneous
UD: 960416
AN: 730611417
DC: ODC1877916

Record 37 of 38 - TREECD 1973-1999/10
TI: Research on coniferous forest ecosystems: first year progress in the coniferous forest biome, US/IBP. Proceedings of a symposium held at Northwest Scientific Association Forty-fifth Annual Meeting, Bellingham, Washington, March 23-24, 1972.
AU: Gessel-DP; Overton-WS; Brown-GW; Burgy-RH; Harr-RD; Riley-JP; Strand-MA; Nagel-WP; Reed-KL; Emmingham-WH; Hatheway-WH; Machno-P; Hamerly-E; Grier-CC; Cole-DW; Abee-A; Lavender-D; Addor-EE; Miller-S; Erickson-CW; Taber-RD; Nellis-CH; Walker-RB; Scott-DRM; Salo-DJ; Webb-WL; Gay-LW; Ringo-JA; Nishitani-JH; Franklin-JF (ed.); Dempster-LJ (ed.); Waring-RH
SO: 1972, 322 pp.; many ref.
PB: Portland, Ore., Pacific Northwest Forest and Range Experiment Station.; USA
PY: 1972
LA: English
AB: Contains 31 papers under five section headings, mainly dealing with studies in the Cedar River catchment and the H.J. Andrews Experimental Forest in the Cascade Range of Washington and Oregon respectively. Some papers of forestry interest are listed below: Why a coniferous forest biome ? (J.F. Franklin); Organization and research program of the western [US] coniferous forest biome (S. P. Gessel); Toward a general model structure for a forest ecosystem (W. S. Overton; 7 ref.); Hydrologic modeling in the coniferous forest biome (G. W. Brown, R. H. Burgy, R. D. Harr, and J. P. Riley; 27 ref.); Preliminary considerations of the forest canopy consumer subsystem (M. A. Strand and W. P. Nagel; 10 ref.) [discusses the structure of food chains based on the forest canopy, and their links with other subsystems]; An environmental grid for classifying coniferous forest ecosystems (R. H. Waring, K. L. Reed and W. H. Emmingham; 33 ref.) [describes the use of environmental plant response indices to define forest ecosystems, and their estimation by means of indicator plants; cf. FA 30, 5477; 33, 6203]; Modeling water movement within the upper rooting zone of a Cedar River soil (W. H. Hatheway, P. Machno and E. Hamerly; 9 ref.) [demonstrates the validity of the Richards flow equation]; Elemental transport changes occurring during development of a second-growth Douglas-Fir ecosystem (C. C. Grier and D. W. Cole; 16 ref.) [further data from the experimental site already described; see FA 30, 1992]; Nutrient cycling in throughfall and litterfall in 450-year-old Douglas-fir stands (A. Abee and D. Lavender; 20 ref.); Theodolite surveying for nondestructive biomass sampling E. E. Addor; 6 ref.) [preliminary studies of the structure of 40-year-old Pseudotsuga menziesii crowns); Small mammal and bird populations on Thompson Site, Cedar River: parameters for modeling (S. Miller, C. W. Erickson, R. D. Taber and C. H. Nellis; 14 ref.); Terrestrial process studies in conifers: a review (R. B. Walker, D. R. M. Scott, D. J. Salo and K. L. Reed; 84 ref.); Criteria for selecting an optimum model: terrestrial photosynthesis (K. L. Reed and W. L. Webb; 19 ref.); Energy flux studies in a coniferous forest ecosystem (L. W. Gay; 21 ref.) [compares the thermal energy balance of a stand at Cedar River on a clear and on a cloudy day, from measurements with ceramic-wick psychrometers]; and Development and testing of an inexpensive thermoelectrically cooled cuvette (D. J. Salo, J.A. Ringo, J. H. Nishitani and R. B. Walker; 8 ref.) [for monitoring gas exchange in the crowns of mature P. menziesii]. Some other papers have been noticed separately.
DE: ecology-; synecology-; hydrology-; research-; methodology-; soil-water; forest-litter; chemistry-; vegetation-types; coniferous-forests; photosynthesis-; animal-ecology
OD: Pseudotsuga-menziesii
ID: study-methods-and-measurements; classification-of-communities; coniferous-ecosystems; energy-relations,-plant-environment; nutrient-cycle; indicators,-plant; hydrological-aspects; ecology,-forest-and-forestry-general; temperate-subarctic; USA,-Pacific-Northwest; ecology,-forest
BT: Pseudotsuga; Pinaceae; Pinopsida; gymnosperms; Spermatophyta; plants
CC: KK100; PP720; ZZ900; JJ300; JJ800; JJ000; KK140; PP000; KK000; FF060; FF061; KK120; AA500
CD: Forestry-General; Biological-Resources-Plant; Techniques-and-Methodology; Soil-Physics; Soil-Water-Management; Soil-Science; Protection-Forestry; Natural-Resources-General;

Forestry,-Forest-Products-and-Agroforestry; Plant-Physiology-and-Biochemistry; Plant-Nutrition; Forest-Mensuration-and-Management; Research
PT: Conference-proceedings
AV: $2.50
UD: 960416
AN: 730606463
DC: ODC18779; ODC1143; ODC116; ODC15; ODC161; ODC18132; ODC18165; ODC9454; ODC9462

Record 38 of 38 - TREECD 1973-1999/10
TI: Federal research natural areas in Oregon and Washington: a guidebook for scientists and educators.
AU: Franklin-JF; Hall-FC; Dyrness-CT; Maser-C
SO: 1972, 420 pp.; many ref.
PB: Portland, Oregon, Pacific Northwest Forest and Range Experiment Station.; USA
PY: 1972
LA: English
DE: nature-conservation; nature-reserves
GE: Oregon-; USA-; Washington-
BT: Pacific-Northwest-States-of-USA; Pacific-States-of-USA; Western-States-of-USA; USA; North-America; America
CC: KK150
CD: Other-Land-Use
PT: Miscellaneous
UD: 960416
AN: 730604985
DC: ODC907079

TREECD - old growth in title
1939-1972 listed from 1971 → 1939
WinSPIRS 4.0 no Australian references found

No.	Records	Request
1	32696	old
2	63878	growth
3	452	(old growth) in ti
4	14285	australia
5	7	#3 and australia
		Searches and records above from: TREECD 1973-1999/07
* 6	80	(old growth) in ti

Record 1 of 80 - TREECD 1939-1972
TI: Some phycomycetes indigenous to soils of old growth forests.
AU: Hendrix,-FF; Campbell,-WA; Chien,-CY
SO: 1971, Mycologia 1971 63 (2), (283-9). [18 ref.].
LA: English
CAB: 0F Forestry-Abstracts 1972 033-01916

Record 2 of 80 - TREECD 1939-1972
TI: An assessment of various synthetic indices in a transitional old-growth forest.
AU: Jackson,-MT; Petty,-RO
SO: 1971, Amer. Midl. Nat. 1971 86 (1), (13-27). [16 ref.].
LA: English
CAB: 0F Forestry-Abstracts 1972 033-02324

Record 3 of 80 - TREECD 1939-1972
TI: Composition and structure of an old-growth forest remnant in unglaciated southwestern Illinois.
AU: Weaver,-GT; Ashby,-WC
SO: 1971, Amer. Midl. Nat. 1971 86 (1), (47-56). [28 ref.].
LA: English
CAB: 0F Forestry-Abstracts 1972 033-02325

Record 4 of 80 - TREECD 1939-1972
TI: Initial partial cutting in old-growth Spruce-Fir.
AU: Alexander,-RR
SO: 1971, US For. Serv. Res. Pap. Rocky Mt. For. Range Exp. Sta. Nos. RM-76 & RM-76A, 1971. pp. 8 + [8]. [19 ref.].
LA: English
CAB: 0F Forestry-Abstracts 1972 033-04208

Record 5 of 80 - TREECD 1939-1972
TI: Mechanical properties of central Sierra old-growth and second-growth Incense Cedar.
AU: Cockrell,-RA; Stangenberger,-AG
SO: 1971, Bull. Calif. Agric. Exp. Sta. No. 852, 1971. pp. 13. [10 ref.].
LA: English
CAB: 0F Forestry-Abstracts 1972 033-05157

Record 6 of 80 - TREECD 1939-1972
TI: Sprouting of old growth coastal Redwood stumps on slopes
AU: Powers,-RF; Wiant,-HV, Jr.
SO: 1970, For. Sci. 1970 16 (3), (339-41). [9 refs.].
LA: English
CAB: 0F Forestry-Abstracts 1971 032-02227

Record 7 of 80 - TREECD 1939-1972
TI: Methodological approaches in the analysis of Indiana old-growth forests.
AU: Schmelz,-DV
SO: 1970, Abstr. of thesis, in Dissert. Abstr. int. 1970 30B (9), (4010). [Order No. 70-3973. Price M. $3.00; X. $9.90. pp. 220.].
LA: English
CAB: 0F Forestry-Abstracts 1971 032-05777

Record 8 of 80 - TREECD 1939-1972
TI: Extent of defects in logs cut from the Philippines old growth Dipterocarp forests.
AU: Santos,-TA; Serna,-CB
SO: 1969, Philipp. Lumberm. 1969 15 (3), (26, 27-8). [3 refs.].
LA: English
CAB: 0F Forestry-Abstracts 1970 031-01137

Record 9 of 80 - TREECD 1939-1972
TI: Kramer Woods: an old-growth stand on the Ohio River terrace.
AU: Schmelz,-D
SO: 1967, Abstr. in Proc. Indiana Acad. Sci. 1967 (1968) 77, (184).
LA: English
CAB: 0F Forestry-Abstracts 1970 031-02283

Record 10 of 80 - TREECD 1939-1972
TI: Economic evaluation and choice in old-growth Douglas-Fir landscape management.
AU: Rickard,-WM; Hughes,-JM; Newport,-CA
SO: 1967, U.S. For.Serv.Res.Pap.Pacif.Nthwest.For.Range Exp. Sta. 1967 No. PNW-49, pp. 33. [12 refs.].
LA: English
CAB: 0F Forestry-Abstracts 1969 030-01686

Record 11 of 80 - TREECD 1939-1972
TI: Cone production, seed dispersal, germination in old-growth Redwood cut and uncut stands.
AU: Boe,-KN
SO: 1968, U.S. For. Serv. Res. Note Pacif. Sthwest. For. Exp. Sta. 1968 No. PSW-184, pp.7. [

3 refs.].
LA: English
CAB: 0F Forestry-Abstracts 1969 030-05411

Record 12 of 80 - TREECD 1939-1972
TI: Volume tables and equations for old-growth Western Hemlock and Sitka Spruce.
AU: Bones,-JT
SO: 1968, U.S. For. Serv. Res. Note Pacif. Nthwest. For. Range Exp. Sta. 1968. No. PNW-91 pp. 11. [4 refs.].
LA: English
CAB: 0F Forestry-Abstracts 1969 030-06189

Record 13 of 80 - TREECD 1939-1972
TI: Sound wood residue left after experimental cuttings in old-growth Redwood [Sequoia sempervirens].
AU: Boe,-KN
SO: 1967, U.S. For. Serv. Res. Note Pacif. Sthwest. For. Range Exp. Sta. No. PSW-136, 1967. pp. 4.
LA: English
CAB: 0F Forestry-Abstracts 1968 029-00686

Record 14 of 80 - TREECD 1939-1972
TI: Soil-moisture and temperature trends in cutover and adjacent old-growth Douglas-Fir timber.
AU: Hallin,-WE
SO: 1967, U.S. For. Serv. Res. Note Pacif. Nthwest. For. Range Exp. Sta. No. PNW-56, 1967. pp. 11. [4 refs.].
LA: English
CAB: 0F Forestry-Abstracts 1968 029-01742

Record 15 of 80 - TREECD 1939-1972
TI: Sprouting of old-growth Redwood.
AU: Wiant,-HV, Jr.; Powers,-RF
SO: 1966, Proc. Soc. Amer. For. 1966, 1967 (88-90). [9 refs.].
LA: English
CAB: 0F Forestry-Abstracts 1968 029-02023

Record 16 of 80 - TREECD 1939-1972
TI: Sprouting of old-growth Redwood stumps-first year after logging.
AU: Neal,-RL, Jr.
SO: 1967, U.S. For. Serv. Res. Note Pacif. Sthwest. For. Range Exp. Sta. No. PSW-137, 1967. pp. 8. [2 refs.].
LA: English
CAB: 0F Forestry-Abstracts 1968 029-03582

Record 17 of 80 - TREECD 1939-1972
TI: Soil moisture accretion and depletion patterns under an old growth hardwood forest.
AU: Harlan,-RL; White,-DP
SO: 1968, Quart. Bull. Mich. Agric. Exp. Sta. 1968 50 (3), (304-15). [19 refs.].
LA: English
CAB: 0F Forestry-Abstracts 1968 029-05039

Record 18 of 80 - TREECD 1939-1972
TI: Windfall after experimental cuttings in old-growth Redwoods.
AU: Boe,-KN
SO: 1965, Proc. Soc. Amer. For. 1965, 1966 (59-63). [5 refs.].
LA: English
CAB: 0F Forestry-Abstracts 1967 028-00692

Record 19 of 80 - TREECD 1939-1972
TI: Some causes of natural tree mortality in old-growth Ponderosa Pine stands in western Montana.
AU: Johnson,-PC
SO: 1966, U.S. For. Serv. Res. Note Intermt. For. Range Exp. Sta. No. INT-51, 1966. pp. 4. [3 refs.].
LA: English
CAB: 0F Forestry-Abstracts 1967 028-03964

Record 20 of 80 - TREECD 1939-1972
TI: Soil moisture regime under old growth hardwoods.
AU: Schneider,-G; White,-DP; Harlan,-RL
SO: 1965, Pap. Mich. Acad. Sci. No. 51, 1965 (1966), (13-21). [11 refs.].
LA: English
CAB: 0F Forestry-Abstracts 1967 028-05006

Record 21 of 80 - TREECD 1939-1972
TI: Decline of old-growth Redwood forests in relation to some soil microbiological processes.
AU: Florence,-RG
SO: 1965, Ecology 46 (1/2), 1965 (52-64). 31 refs.
LA: English
CAB: 0F Forestry-Abstracts 1966 027-00996

Record 22 of 80 - TREECD 1939-1972
TI: Size-class structure of old-growth forests in Indiana.
AU: Schmelz,-DV; Lindsey,-AA
SO: 1965, For. Sci. 11 (3), 1965 (258-64). 11 refs.
LA: English
CAB: 0F Forestry-Abstracts 1966 027-02643

Record 23 of 80 - TREECD 1939-1972
TI: Shrinkage of coast-type Douglas Fir and old-growth Redwood boards.
AU: Comstock,-GL
SO: 1965, U.S. For. Serv. Res. Pap. U.S. For. Prod. Lab., Madison No. FPL-30, 1965. pp. 19. 8 refs.

LA: English
CAB: 0F Forestry-Abstracts 1966 027-02784

Record 24 of 80 - TREECD 1939-1972
TI: Harvest cutting old-growth Lodgepole Pine in the central Rocky Mountains.
AU: Alexander,-RR
SO: 1966, J. For. 64 (2), 1966 (113-6). 13 refs.
LA: English
CAB: 0F Forestry-Abstracts 1966 027-03676

Record 25 of 80 - TREECD 1939-1972
TI: Structure of old growth forest stands in eastern Canada.
AU: Place,-ICM
SO: 1964, Abstr. 10th Int. Bot. Congr. 1964 (273-4).D.
LA: English
CAB: 0F Forestry-Abstracts 1966 027-05705

Record 26 of 80 - TREECD 1939-1972
TI: Natural regeneration in old-growth Redwood cuttings.
AU: Boe,-KN
SO: 1965, U.S. For. Serv. Res. Note Pacif. Sthwest. For. Range Exp. Sta. No. PSW-94, 1965. pp. 5. 4 refs.
LA: English
CAB: 0F Forestry-Abstracts 1966 027-05716

Record 27 of 80 - TREECD 1939-1972
TI: Dieback of managed, old-growth northern hardwoods in Upper Michigan, 1954-1964. A case history.
AU: Kessler,-KJ, Jr.
SO: 1965, Plant Dis. Reptr. 49 (6), 1965 (483-6). 7 refs.
LA: English
CAB: 0F Forestry-Abstracts 1966 027-06438

Record 28 of 80 - TREECD 1939-1972
TI: Old-growth northern hardwood forests in northeastern Minnesota.
AU: Flaccus,-E; Ohmann,-LF
SO: 1964, Ecology 45 (3), 1964 (448-59). 30 refs.
LA: English
CAB: 0F Forestry-Abstracts 1965 026-01976

Record 29 of 80 - TREECD 1939-1972
TI: Pathological effects of logging damage four years after selective cutting in old-growth northern hardwoods.
AU: Benzie,-JW; Hestenberg,-G; Ohman,-JH
SO: 1963, J. For. 61 (10), 1963 (786...792). 2 refs.
LA: English
CAB: 0F Forestry-Abstracts 1964 025-02532

Record 30 of 80 - TREECD 1939-1972
TI: Tractor-logging costs and production in old-growth Redwood.
AU: Boe,-KN
SO: 1963, U.S. For. Serv. Res. Pap. Pacif. Sthwest. For. Range Exp. Sta. No. PSW-8, 1963. pp. 16. 3 refs.
LA: English
CAB: 0F Forestry-Abstracts 1964 025-05543

Record 31 of 80 - TREECD 1939-1972
TI: Comparison of young-growth and old-growth Redwood machinability, fastening strength, and shrinkage.
AU: Schniewind,-AP
SO: 1963, Calif. For. & For. Prod. Calif. For. Prod. Lab. No. 33, 1963. pp. [8]. 10 refs.
LA: English
CAB: 0F Forestry-Abstracts 1964 025-05675

Record 32 of 80 - TREECD 1939-1972
TI: Choose the right wood. Old-growth and second-growth. Part I, hardwoods. Part II, softwoods.
AU: Paul,-BH
SO: 1962, Woodwkg. Dig. 64 (6; 7), 1962 (48-9; 34-6).
LA: English
CAB: 0F Forestry-Abstracts 1963 024-01191

Record 33 of 80 - TREECD 1939-1972
TI: Diameter increment in old-growth Douglas Fir infected by Arceuthobium douglasii.
AU: Shea,-KR
SO: 1962, Abstr. in Phytopathology 52 (8), 1962 (752).
LA: English
CAB: 0F Forestry-Abstracts 1963 024-02266

Record 34 of 80 - TREECD 1939-1972
TI: Harvest cutting old-growth mountain Spruce-Fir in Colorado.
AU: Alexander,-RR
SO: 1963, J. For. 61 (2), 1963 (115-9). 4 refs.
LA: English
CAB: 0F Forestry-Abstracts 1963 024-04808

Record 35 of 80 - TREECD 1939-1972
TI: Diameter increment in old-growth Douglas Fir infected by dwarfmistletoe.
AU: Shea,-KR
SO: 1963, For. Res. Note Weyerhaeuser Co., Centralia, Wash. No. 50, 1963. pp. 11. 5 refs.
LA: English
CAB: 0F Forestry-Abstracts 1963 024-05146

Record 36 of 80 - TREECD 1939-1972
TI: Redwood seed dispersion in old-growth cutovers.
AU: Boe,-KN

SO: 1961, Res. Note Pacif. Sthwest. For. Range Exp. Sta. No. 177, 1961. pp. 7. 3 refs.
LA: English
CAB: 0F Forestry-Abstracts 1962 023-01724

Record 37 of 80 - TREECD 1939-1972
TI: Yellow Birch grows better in mixed-wood stands than in northern hardwood old-growth stands.
AU: Leak,-WB
SO: 1961, For. Res. Note Ntheast. For. Exp. Sta. No. 122, 1961. pp. 4. 3 refs.
LA: English
CAB: 0F Forestry-Abstracts 1962 023-04118

Record 38 of 80 - TREECD 1939-1972
TI: Occurrence of shrubs and herbaceous vegetation after clear cutting old-growth Douglas-Fir in the Oregon Cascades.
AU: Yerkes,-VP
SO: 1960, Res. Pap. Pacif. Nthwest. For. Range Exp. Sta. No. 34, 1960. pp. 12. 8 refs.
LA: English
CAB: 0F Forestry-Abstracts 1962 023-04935

Record 39 of 80 - TREECD 1939-1972
TI: The economic significance of mortality in old-growth Douglas-Fir management.
AU: McMahon,-RO
SO: 1961, Res. Pap. Pacif. Nthwest. For. Range Exp. Sta. No. 37, 1961. pp. vi + 21. 11 refs.
LA: English
CAB: 0F Forestry-Abstracts 1962 023-05715

Record 40 of 80 - TREECD 1939-1972
TI: The de la Howe old-growth forest in Piedmont Shortleaf Pine.
AU: Metz,-LJ
SO: 1960, J. For. 58 (10), 1960 (807-8, 810).
LA: English
CAB: 0F Forestry-Abstracts 1961 022-02632

Record 41 of 80 - TREECD 1939-1972
TI: Development of old-growth northern hardwoods on Bartlett Experimental Forest-a 22-year record.
AU: Filip,-SM; Marquis,-DA; Leak,-WB
SO: 1960, Sta. Pap. Ntheast. For. Exp. Sta. No. 135, 1960. pp. 7. 2 refs.
LA: English
CAB: 0F Forestry-Abstracts 1961 022-04922

Record 42 of 80 - TREECD 1939-1972
TI: Yarding and loading costs for salvaging in old-growth Douglas-Fir with a mobile high-lead yarder.
AU: Carow,-J
SO: 1959, Res. Pap. Pacif. Nthwest. For. Range Exp. Sta. 1959 No. 32. pp. 26. 3 refs. [Cf. F.A. 19 No. 1823].
LA: English
CAB: 0F Forestry-Abstracts 1960 021-01857

Record 43 of 80 - TREECD 1939-1972
TI: Regeneration after cutting of old-growth northern hardwoods in New Hampshire.
AU: Leak,-WB; Wilson,-RW, Jr.
SO: 1958, Sta. Pap. Ntheast. For. Exp. Sta. 1958 No. 103 (8 pp.). [3 refs.].
LA: English
CAB: 0F Forestry-Abstracts 1959 020-00351

Record 44 of 80 - TREECD 1939-1972
TI: Incidence of rot in hardwood sawtimber in [an unmanaged, old-growth Loblolly stand in] coastal North Carolina.
AU: Gruschow,-GF; Trousdell,-KB
SO: 1959, J. For. 1959 57 (5), (370-1). [Cf. F.A. 19 No. 4006.].
LA: English
CAB: 0F Forestry-Abstracts 1959 020-04784

Record 45 of 80 - TREECD 1939-1972
TI: In logging old growth Douglas Fir, mobile yarder shows promise in salvage.
AU: Carow,-J; Ruth,-RH
SO: 1957, Timberman 1957 58 (10), (66-9, 104, 108). 4 refs.
LA: English
CAB: 0F Forestry-Abstracts 1958 019-01823

Record 46 of 80 - TREECD 1939-1972
TI: A comparison of growth and mortality following cutting in old-growth mountain Spruce-Fir [Picea engelmannii/Abies lasiocarpa] stands.
AU: Alexander,-RR
SO: 1956, Res. Note Rocky Mt. For. Range Exp. Sta. 1956 No. 20, pp. 4.
LA: English
CAB: 0F Forestry-Abstracts 1957 018-00284

Record 47 of 80 - TREECD 1939-1972
TI: Old-growth conversion also converts fire climate.
AU: Countryman,-CM
SO: 1956, Fire Control Notes 1956 17 (4), (15-9). 5 refs.
LA: English
CAB: 0F Forestry-Abstracts 1957 018-01750

Record 48 of 80 - TREECD 1939-1972
TI: Topwood volume tables: second-growth Hemlock, old-growth Hemlock, and Red Spruce.
AU: Mawson,-JC; Young,-HE
SO: 1956, Tech. Note Univ. Me. For. Dep. 1956 No. 39, 1956. pp. 4.
LA: English
CAB: 0F Forestry-Abstracts 1956 017-03109

Record 49 of 80 - TREECD 1939-1972

TI: Bond and magazine book papers and milk-carton paperboard from old-growth Douglas-Fir and Red Alder pulps.
AU: Baird,-PK; Martin,-JS; Fahey,-DJ
SO: 1955, Rep. U.S. For. Prod. Lab., Madison 1955 No. 2042, 1955. pp. 10 + 3 tbls. 2 refs.
LA: English
CAB: 0F Forestry-Abstracts 1956 017-03430

Record 50 of 80 - TREECD 1939-1972
TI: The effects of logging old- growth timber on big game.
AU: Huestis,-ES
SO: 1956, Proc. Soc. Amer. For. 1955 1956 (123-4).
LA: English
CAB: 0F Forestry-Abstracts 1956 017-03621

Record 51 of 80 - TREECD 1939-1972
TI: The effects of logging old-growth timber on fish management
AU: Schneider,-PW
SO: 1956, Proc. Soc. Amer.for. 1955 1956 (121-3). 5 refs.
LA: English
CAB: 0F Forestry-Abstracts 1956 017-03622

Record 52 of 80 - TREECD 1939-1972
TI: Place of partial cutting in old-growth stands of the Douglas- Fir region.
AU: Isaac,-LA
SO: 1956, Res. Pap. Pacif. Nthwest. For. Range Exp. Sta. 1956 No. 16, pp. 48. 9 refs.
LA: English
CAB: 0F Forestry-Abstracts 1956 017-03789

Record 53 of 80 - TREECD 1939-1972
TI: Windthrow around staggered settings in old growth Douglas- Fir.
AU: Gratkowski,-HJ
SO: 1956, For. Sci. 1956 2 (1),(60-74). 21 refs.
LA: English
CAB: 0F Forestry-Abstracts 1956 017-04049

Record 54 of 80 - TREECD 1939-1972
TI: The effect of logging old-growth timber on bear.
AU: Lauckhart,-JB
SO: 1956, Proc. Soc. Amer. For.1955, 1956 (128-30). 5 refs.
LA: English
CAB: 0F Forestry-Abstracts 1956 017-04126

Record 55 of 80 - TREECD 1939-1972
TI: Stand conditions in the old-growth hardwoods of the Fred Russ Forest in Southwestern Michigan.
AU: Rudolph,-VJ
SO: 1956, J.For. 1956 54 (4),(249-54). 4 refs.
LA: English
CAB: 0F Forestry-Abstracts 1956 017-04331

Record 56 of 80 - TREECD 1939-1972
TI: Lumber grades from old-growth Douglas-Fir sawmill logs.
AU: Matson,-EE
SO: 1956, Res. Note Pacif. Nthwest. For. Range Exp. Sta. 1956 No. 125 pp.6.
LA: English
CAB: 0F Forestry-Abstracts 1956 017-04460

Record 57 of 80 - TREECD 1939-1972
TI: The relationship of lumber recovery to log quality in 29 old-growth Douglas-Fir trees of the Oregon Coast Range.
AU: Grantham,-JB
SO: 1953, Rep. Ore. For. Prod. Lab. 1953 No. G1 pp. 13 + 34 tbls. + 2 gphs. + 30 dgms.
LA: English
CAB: 0F Forestry-Abstracts 1955 016-01013

Record 58 of 80 - TREECD 1939-1972
TI: Indiana's old growth forests.
AU: DenUyl,-D
SO: 1953, Proc. Indiana Acad. Sci. 1953 63, (73-9). 3 refs.
LA: English
CAB: 0F Forestry-Abstracts 1955 016-04814

Record 59 of 80 - TREECD 1939-1972
TI: Conk rot of old-growth Douglas Fir in western Oregon.
AU: Boyce,-JS; Wagg,-JWB
SO: 1953, Bull. Ore. For. Prod. Lab. 1953. No.4, pp. 96. 18 refs.
LA: English
CAB: 0F Forestry-Abstracts 1954 015-01497

Record 60 of 80 - TREECD 1939-1972
TI: Factors affecting the rate of decay of old-growth Douglas Fir by Fomes pini.
AU: Roth,-LF
SO: 1952, Abstr. in P{hytopathology 1952 42 (9), (518-9).
LA: English
CAB: 0F Forestry-Abstracts 1953 014-01316

Record 61 of 80 - TREECD 1939-1972
TI: Reducing mortality in old-growth northern hardwoods through partial cutting.
AU: Eyre,-FH; Longwood,-FR
SO: 1951, Sta. Pap. Lake St. For. Exp. Sta. 1951. No. 24 pp. 13.
LA: English
CAB: 0F Forestry-Abstracts 1951-52 013-00307

Record 62 of 80 - TREECD 1939-1972
TI: Some strength and related properties of old-growth Douglas Fir decayed by Fomes pini.
AU: Stillinger,-JR

SO: 1951, Bull. Amer. Soc. Test. Mat. 1951 No. 173 (52-8). 3 refs.
LA: English
CAB: 0F Forestry-Abstracts 1951-52 013-00632

Record 63 of 80 - TREECD 1939-1972
TI: The most efficient size and shape of plot to use for cruising in old-growth Douglas-Fir timber.
AU: Johnson,-FA; Hixon,-HJ
SO: 1952, J. For. 1952 50 (1), (17-20).
LA: English
CAB: 0F Forestry-Abstracts 1951-52 013-03214

Record 64 of 80 - TREECD 1939-1972
TI: Discussion of paper on some properties of old-growth Douglas Fir decayed by Fomes pini.
SO: 1951, Bull. Amer. Soc. Test. Mater. 1951 No. 177 (40-1).
LA: English
CAB: 0F Forestry-Abstracts 1951-52 013-03425

Record 65 of 80 - TREECD 1939-1972
TI: Douglas-Fir region old growth management [: stream flow and erosion studies].
SO: 1951, Rep. Pacif. Nthwest. For. Range Exp. Sta. 1950 1951 (29-31).
LA: English
CAB: 0F Forestry-Abstracts 1951-52 013-03583

Record 66 of 80 - TREECD 1939-1972
TI: Slash disposal and site preparation in converting old-growth Sugar Pine/Fir forests to regulated stands.
AU: Gordon,-DT; Cosens,-RD
SO: 1952, For. Res. Note Calif. For Range Exp. Sta. 1952 No. 81 pp. 7. 5 refs.
LA: English
CAB: 0F Forestry-Abstracts 1951-52 013-03733

Record 67 of 80 - TREECD 1939-1972
TI: Size-class distribution in old-growth northern hardwoods twenty years after [selective] cutting.
AU: Eyre,-FH; Zillgitt,-WM
SO: 1950, Sta. Pap. Lake St. For. Exp. Sta 1950. No. 21 pp. 15 + 4 gphs.
LA: English
CAB: 0F Forestry-Abstracts 1950-51 012-02531

Record 68 of 80 - TREECD 1939-1972
TI: Sulfate pulping of logging and sawmill wastes of old-growth Douglas-Fir and of certain associated species.
AU: Martin,-JS
SO: 1949, Rep. U.S. For. Prod. Lab., Madison 1949. No. R1747 pp. 10 + 8 tbls.
LA: English
CAB: 0F Forestry-Abstracts 1949-50 011-03016

Record 69 of 80 - TREECD 1939-1972
TI: Epicormic branching in old-growth Appalachian hardwoods.
AU: Jemison,-GM; Schumacher,-FX
SO: 1948, J. For. 1948 46 (4), (252-5).
LA: English
CAB: 0F Forestry-Abstracts 1948-49 010-00156

Record 70 of 80 - TREECD 1939-1972
TI: Conversion of the virgin, old-growth [Ponderosa Pine] forest to a managed, rapidly growing condition.
SO: 1948, Rep. Pacif. Nthwest. For. Range Exp. Sta. 1947, 1948 (22).
LA: English
CAB: 0F Forestry-Abstracts 1948-49 010-02539

Record 71 of 80 - TREECD 1939-1972
TI: Partial cutting in old-growth Douglas Fir.
SO: 1948, Rep. Pacif. Nthwest. For. Range Exp. Sta. 1947, 1948 (17-9).
LA: English
CAB: 0F Forestry-Abstracts 1948-49 010-02540

Record 72 of 80 - TREECD 1939-1972
TI: Old growth Douglas Fir standard stock doors. (Third edition).
AU: United-States.
SO: 1945, Comm. Stand. U.S. Bur. Stand. 1945. No. 73-45 pp. 37.
LA: English
CAB: 0F Forestry-Abstracts 1947-48 009-01177

Record 73 of 80 - TREECD 1939-1972
TI: Instructions for computations: physical and financial stand structure analysis for the old growth northern hardwood and Hemlock forest.
AU: Barton,-WW; et-al.
SO: 1943, U.S. Forest Service, Milwaukee, Wisconsin. 1943 (revised). pp. 12 + 114.
LA: English
CAB: 0F Forestry-Abstracts 1946-47 008-01500

Record 74 of 80 - TREECD 1939-1972
TI: Some base-exchange relations of old-growth forest soil profiles in the Central States.
AU: Auten,-JT
SO: 1942, Abstr. in Proc. Soil Sci. Soc. Amer. 1941 6 1942 (404). [Central States Forest Exp. Sta.] H.S.B.
LA: English
CAB: 0F Forestry-Abstracts 1942-43 004-15003

Record 75 of 80 - TREECD 1939-1972
TI: The virgin upland forest of central New England: a study of old growth stands in the Pisgah Mountain section of southwestern New Hampshire.
AU: Cline,-AC; Spurr,-SH
SO: 1942, Harv. For. Bull. No. 21 1942. pp. 58 + table.

LA: English
CAB: 0F Forestry-Abstracts 1942-43 004-22002

Record 76 of 80 - TREECD 1939-1972
TI: Volume and taper tables for old-growth coastal Redwood.
AU: Hallin,-W
SO: 1941, California Forest and Range Experiment Station, Berkeley. 1941. pp. 79.
LA: English
CAB: 0F Forestry-Abstracts 1941-42 003-17206

Record 77 of 80 - TREECD 1939-1972
TI: Notes on old-growth forests in Ohio, Indiana and Illinois.
AU: Auten,-JT
SO: 1941, Tech. Note cent. St. For. Exp. Sta. No. 49 1941. pp. 8.
LA: English
CAB: 0F Forestry-Abstracts 1941-42 003-29905

Record 78 of 80 - TREECD 1939-1972
TI: Volume losses in logging and marketing old growth Douglas Fir.
AU: Brandstrom,-AJF; Flanagan,-GC
SO: 1940, Timberman 41 (7) 1940 (17-22). [Pacific Northwest Forest & Range Exp. Sta.].
LA: English
CAB: 0F Forestry-Abstracts 1940-41 002-14801

Record 79 of 80 - TREECD 1939-1972
TI: Lumber from old-growth versus lumber from second-growth in Pinus strobus.
AU: Davis,-EM
SO: 1940, J. For. 38 1940 (877-80). [Forest Products Laboratory, Madison, Wis.].
LA: English
CAB: 0F Forestry-Abstracts 1940-41 002-30505

Record 80 of 80 - TREECD 1939-1972
TI: Volume table for old-growth Redwood.
AU: Fritz,-E
SO: 1939, Timberman 40 1939 (205-16).
LA: German
CAB: 0F Forestry-Abstracts 1939-40 001-19204

TREECD - oldgrowth in title 1972-1985

WinSPIRS 4.0

No.	Records	Request
1	109	franklin-j*
2	109	franklin-j* in au
3	154202	PY = 1972-1985
4	38	#2 and (PY = 1972-1985)
5	33080	old
6	64694	growth
7	466	(old growth) in ti
8	154202	PY = 1972-1985
9	65	#7 and (PY = 1972-1985)
10	15208	australia*
* 11	65	#9 not australia*

Record 1 of 65 - TREECD 1973-1999/10
TI: A critique on overstory/understory comparisons based on transition probability analysis of an old growth spruce-fir stand in the Appalachians.
AU: White-PS; MacKenzie-MD; Busing-RT
SO: Vegetatio. 1985, 64: 1, 37-45; 24 ref.
LA: English
PT: Journal-article
AN: 890637065

Record 2 of 65 - TREECD 1973-1999/10
TI: Costs of three harvesting methods in old growth dipterocarp forest: A case study of two timber licensees in Mindanao.
AU: Tomboc-CC; Bruzon-JB
SO: Sylvatrop. 1985, 10: 4, 219-230; 6 ref.
LA: English
PT: Journal-article
AN: 890636972

Record 3 of 65 - TREECD 1973-1999/10
TI: Catastrophic wind disturbance in an old-growth hemlock-hardwood forest, Wisconsin.
AU: Dunn-CP; Guntenspergen-GR; Dorney-JR
SO: Canadian-Journal-of-Botany. 1983, 61: 1, 211-217; 33 ref.
LA: English
LS: French
PT: Journal-article
AN: 890633807

Record 4 of 65 - TREECD 1973-1999/10
TI: Fifty years of change in the arboreal vegetation of Heart's Content, an old-growth hemlock-white pine-northern hardwood stand.
AU: Whitney-GG
SO: Ecology. 1984, 65: 2, 403-408; 42 ref.
LA: English
PT: Journal-article
AN: 890632146

Record 5 of 65 - TREECD 1973-1999/10
TI: Autumn leaf fall and nutrient return in an old-growth and a second-growth forest in eastern Kentucky.
AU: Muller-RN; Martin-WH
SO: Botanical-Gazette. 1983, 144: 4, 552-558; 36 ref.
LA: English
PT: Journal-article
AN: 880628098

Record 6 of 65 - TREECD 1973-1999/10
TI: Composition and density-diameter pattern of an old-growth forest stand of the Boiling Springs Natural Area, South Carolina.
AU: Jones-SM; Lear-DH-van; Cox-SK
SO: Bulletin-of-the-Torrey-Botanical-Club. 1981, 108: 3, 347-353; 12 ref.
LA: English
PT: Journal-article
AN: 880626812

Record 7 of 65 - TREECD 1973-1999/10
TI: Size class structure and tree dispersion patterns in old-growth cedar-hemlock forests of the northern Rocky Mountains (USA).
AU: Turner-DP; Franz-EH
SO: Oecologia. 1985, 68: 1, 52-56; ORS; 41 ref.
LA: English
PT: Journal-article
AN: 880625166

Record 8 of 65 - TREECD 1973-1999/10
TI: Invertebrates of the H.J. Andrews Experimental Forest, Western Cascade Mountains, Oregon: a survey of arthropods associated with the canopy of old-growth Pseudotsuga menziesii.
AU: Voegtlin-DJ
SO: Special-Publication,-Forest-Research-Laboratory,-Oregon-State-University. 1982, No. 4, 30pp.; 25 ref.
LA: English

PT: Miscellaneous
AN: 880620682

Record 9 of 65 - TREECD 1973-1999/10
TI: Diameter and basal area distributions in old-growth spruce-fir stands in Colorado.
AU: Alexander-RR
SO: Research-Note,-Rocky-Mountain-Forest-and-Range-Experiment-Station,-USDA-Forest-Service. 1985, No. RM-451, 4 pp.; 11 ref.
LA: English
PT: Miscellaneous
AN: 880620439

Record 10 of 65 - TREECD 1973-1999/10
TI: Multispan logging of old-growth timber in southwest Oregon.
AU: Lysne-DH; Armitage-SE
SO: Research-Note,-Forest-Research-Laboratory,-Oregon-State-University. 1983, No. 74, 7pp.; 5 ref.
LA: English
PT: Miscellaneous
AN: 870619369

Record 11 of 65 - TREECD 1973-1999/10
TI: Differences in amphibian populations in logged and old growth redwood forest.
AU: Bury-RB
SO: Northwest-Science. 1983, 57: 3, 167-178; 31 ref.
LA: English
PT: Journal-article
AN: 860612335

Record 12 of 65 - TREECD 1973-1999/10
TI: Biogeography, old-growth stands and wildlife in the western Cascades.
AU: Harris-LD; Maser-C; McGlothlen-M
SO: Research-Report,-School-of-Forest-Resources-and-Conservation,-University-of-Florida. 1982?, No. 32, v + 234 + 77 pp.; 31 pp. of ref.
LA: English
PT: Miscellaneous
AN: 860608159

Record 13 of 65 - TREECD 1973-1999/10
TI: Elk and deer diets in old-growth forests in Western Washington.
AU: Leslie-DM Jr.; Starkey-EE; Vavra-M
SO: Journal-of-Wildlife-Management. 1984, 48: 3, 762-775; 54 ref.
LA: English
PT: Journal-article
AN: 850774965

Record 14 of 65 - TREECD 1973-1999/10
TI: Estimating the weight of crown segments for old-growth Douglas-fir and western hemlock.
AU: Snell-JAK; Max-TA
SO: Research-Paper,-Pacific-Northwest-Forest-and-Range-Experiment-Station,-USDA-Forest-Service. 1985, No. PNW-329, ii + 22 pp.; 12 ref.
LA: English
PT: Journal-article
AN: 850605619

Record 15 of 65 - TREECD 1973-1999/10
TI: Tree dynamics in an old-growth, deciduous forest.
AU: Parker-GR; Leopold-DJ; Eichenberger-JK
SO: Forest-Ecology-and-Management. 1985, 11: 1-2, 31-57; 70 ref.
LA: English
PT: Journal-article
AN: 850604997

Record 16 of 65 - TREECD 1973-1999/10
TI: Characteristics of logging residues from Oregon old-growth stands.
AU: Funck-JW; Hoag-ML
SO: Forest-Products-Journal. 1985, 35: 6, 33-40; 29 ref.
LA: English
PT: Journal-article
AN: 850604223

Record 17 of 65 - TREECD 1973-1999/10
TI: Secular climate change in old-growth tree-line vegetation of northern Quebec.
AU: Payette-S; Filion-L; Gauthier-L; Boutin-Y
SO: Nature,-UK. 1985, 315: 6015, 135-138; 15 ref.
LA: English
PT: Journal-article
AN: 850603353

Record 18 of 65 - TREECD 1973-1999/10
TI: Composition, structure, and aboveground biomass of two old-growth northern hardwood stands in Upper Michigan.
AU: Mroz-GD; Gale-MR; Jurgensen-MF; Frederick-DJ; Clark-A III
SO: Canadian-Journal-of-Forest-Research. 1985, 15: 1, 78-82; 13 ref.
LA: English
LS: French
PT: Journal-article
AN: 850603234

Record 19 of 65 - TREECD 1973-1999/10
TI: The internal element cycles of an old-growth Douglas-fir ecosystem in western Oregon.
AU: Sollins-P; Grier-CC; McCorison-FM; Cromack-K Jr.; Fogel-R; Fredriksen-RL
SO: Ecological-Monographs. 1980, 50: 3, 261-285; 5 fig., 6 tab.; Many ref.
LA: English

PT: Journal-article
AN: 841988959

Record 20 of 65 - TREECD 1973-1999/10
TI: Denitrification and nitrous oxide production in successional and old-growth Michigan forests.
AU: Robertson-GP; Tiedje-JM
SO: Soil-Science-Society-of-America-Journal. 1984, 48: 2, 383-389; 2 fig., 4 tab.; 27 ref.
LA: English
PT: Journal-article
AN: 841987224

Record 21 of 65 - TREECD 1973-1999/10
TI: Characteristics of residues in a cable-logged area of old-growth Douglas-fir.
AU: Pong-WY; Henley-JW
SO: Research-Paper,-Pacific-Northwest-Forest-and-Range-Experiment-Station,-USDA-Forest-Service. 1984, No. PNW-316, ii + 30 pp.; 7 ref.
LA: English
PT: Journal-article
AN: 840698476

Record 22 of 65 - TREECD 1973-1999/10
TI: Uphill falling of old-growth Douglas-fir.
AU: Hunt-DL; Henley-JW
SO: General-Technical-Report,-Pacific-Northwest-Forest-and-Range-Experiment-Station,-USDA-Forest-Service. 1981, No. PNW-122, i + 18 pp.; 3 pl.; 3 ref.
LA: English
PT: Journal-article
AN: 840694947

Record 23 of 65 - TREECD 1973-1999/10
TI: Old growth forests. A balanced perspective. Proceedings of a conference, Eugene, Oregon, February 12 to 14, 1982.
CA: USA, Bureau of Governmental Research and Service, University of Oregon.
SO: 1982, iii + 147 pp.; 8 pl.; many ref.
PB: Eugene, Oregon; USA
LA: English
PT: Conference-proceedings
AN: 830683581

Record 24 of 65 - TREECD 1973-1999/10
TI: Lobaria oregana, a nitrogen-fixing lichen in old-growth Douglas fir forests.
AU: Denison-WC
SO: Symbiotic-nitrogen-fixation-in-the-management-of-temperate-forests-Gordon,-J.C.;-Wheeler,-C.T.;-Perry,-D.A. -Editors. 1979, 266-275; 15 ref.
PB: Oregon State University Press; Corvallis, OR; USA
LA: English
PT: Miscellaneous
AN: 821971406

Record 25 of 65 - TREECD 1973-1999/10
TI: Structure and dynamics of old-growth Nothofagus forests in the Valdivian Andes, Chile.
AU: Veblen-TT; Schlegel-FM; Escobar-R-B
SO: Journal-of-Ecology. 1980, 68: 1, 1-31; 61 ref.
LA: English
PT: Journal-article
AN: 820685524

Record 26 of 65 - TREECD 1973-1999/10
TI: Biomass, production, and nutrient cycling of mosses in an old-growth Douglas-fir forest.
AU: Binkley-D; Graham-RL
SO: Ecology. 1981, 62: 5, 1387-1389; 14 ref.
LA: English
PT: Journal-article
AN: 820682265

Record 27 of 65 - TREECD 1973-1999/10
TI: Gap regeneration in some old-growth forests of the eastern United States.
AU: Runkle-JR
SO: Ecology. 1981, 62: 4, 1041-1051; 41 ref.
LA: English
PT: Journal-article
AN: 820682255

Record 28 of 65 - TREECD 1973-1999/10
TI: Foliage distribution in old-growth coniferous tree canopies.
AU: Massman-WJ
SO: Canadian-Journal-of-Forest-Research. 1982, 12: 1, 10-17; 9 ref.
LA: English
LS: French
PT: Journal-article
AN: 820678485

Record 29 of 65 - TREECD 1973-1999/10
TI: Ecological characteristics of old-growth Douglas-fir forests.
AU: Franklin-JF; Cromack-K Jr.; Denison-W; McKee-A; Maser-C; Sedell-J; Swanson-F; Juday-G
SO: General-Technical-Report,-Pacific-Northwest-Forest-and-Range-Experiment-Station,-USDA-Forest-Service. 1981, No. PNW-118, iii + 48 pp.; 8 pl.; 71 ref.
LA: English
PT: Miscellaneous
AN: 820677732

Record 30 of 65 - TREECD 1973-1999/10
TI: Directional felling of large old-growth cedar [Thuja plicata] trees [in British

Columbia].
AU: Guimier-DY
SO: Technical-Report,-Forest-Engineering-Research-Institute-of-Canada. 1980, No. TR-43, v + 45 pp.; 9 pl. See also FPA 4, 1653; 13 ref.
LA: English
LS: French
PT: Miscellaneous
AN: 820675905

Record 31 of 65 - TREECD 1973-1999/10
TI: Nitrogen and carbon solution chemistry of an old growth coniferous forest watershed before and after cutting.
AU: Sollins-P; McCorison-FM
SO: Water-Resources-Research. 1981, 17: 5, 1409-1418; 51 ref.
LA: English
PT: Journal-article
AN: 811965106

Record 32 of 65 - TREECD 1973-1999/10
TI: Regeneration of yellow birch following selective cutting of old growth northern hardwoods.
AU: Willis-GL; Johnson-JA
SO: Research-Note,-Ford-Forestry-Center,-Michigan-Technological-University. 1978, No. 26, 13 pp.; 11 ref.
LA: English
PT: Miscellaneous
AN: 810676408

Record 33 of 65 - TREECD 1973-1999/10
TI: Comparative stand development in an old-growth Douglas-fir (Pseudotsuga menziesii var. glauca) forest in western Montana.
AU: Tesch-SD
SO: Canadian-Journal-of-Forest-Research. 1981, 11: 1, 82-89; 30 ref.
LA: English
LS: French
PT: Journal-article
AN: 810673511

Record 34 of 65 - TREECD 1973-1999/10
TI: Characteristics of residues in a helicopter logged area of old-growth Douglas-fir.
AU: Pong-WY; Henley-JW
SO: USDA-Forest-Service-Research-Note,-Pacific-Northwest-Forest-and-Range-Experiment-Station. 1978, No. PNW-320, 33 pp.; 11 ref.
LA: English
PT: Miscellaneous
AN: 800665357

Record 35 of 65 - TREECD 1973-1999/10
TI: Log input and decomposition in an old-growth Douglas-fir forest.
AU: MacMillan-PC; Means-JE; Cromack-K Jr.
SO: Proceedings-of-the-Indiana-Academy-of-Science. 1977, publ. 1978, 87: 168; APB.
LA: English
PT: Abstract-only
AN: 800658576

Record 36 of 65 - TREECD 1973-1999/10
TI: Nutrient capital and substrate quality of logs in an old-growth Douglas-fir forest.
AU: MacMillan-PC; Cromack-K Jr.; Means-JE
SO: Proceedings-of-the-Indiana-Academy-of-Science. 1977, publ. 1978, 87: 101-102; APB.
LA: English
PT: Abstract-only
AN: 800658575

Record 37 of 65 - TREECD 1973-1999/10
TI: The relationship of buried, germinating seeds to vegetation in an old-growth Colorado subalpine forest.
AU: Whipple-SA
SO: Canadian-Journal-of-Botany. 1978, 56: 13, 1505-1509; 22 ref.
LA: English
LS: French
PT: Journal-article
AN: 792324088

Record 38 of 65 - TREECD 1973-1999/10
TI: Sapwood water storage: its contribution to transpiration and effect upon water conductance through the stems of old-growth Douglas-fir.
AU: Waring-RH; Running-SW
SO: Plant,-Cell-and-Environment. 1978, 1: 2, 131-140; 27 ref.
LA: English
PT: Journal-article
AN: 791950955

Record 39 of 65 - TREECD 1973-1999/10
TI: Characteristics of residues in a balloon logged area of old-growth Douglas-fir.
AU: Pong-WY; Henley-JW
SO: USDA-Forest-Service-Research-Note,-Pacific-Northwest-forest-and-Range-Experiment-Station. 1976, No. PNW-272, 14 pp.; 5 ref.
LA: English
PT: Miscellaneous
AN: 790652991

Record 40 of 65 - TREECD 1973-1999/10
TI: The relationship of buried, germinating seeds to vegetation in an old-growth Colorado

subalpine forest.
AU: Whipple-SA
SO: Canadian-Journal-of-Botany. 1978, 56: 13, 1505-1509; 22 ref.
LA: English
LS: French
PT: Journal-article
AN: 781943348

Record 41 of 65 - TREECD 1973-1999/10
TI: Uneven-aged management of old growth spruce/fir forests: cutting methods and stand structure goals for the initial entry.
AU: Alexander-RR; Edminster-CB
SO: USDA-Forest-Service-Research-Paper,-Rocky-Mountain-Forest-and-Range-Experiment-Station. 1977, No. RM-186, 12 pp.; 16 ref.
LA: English
PT: Miscellaneous
AN: 780651737

Record 42 of 65 - TREECD 1973-1999/10
TI: Volume changes in an old-growth beech-maple forest over a 10-year period.
AU: Jackson-MT; Abrell-DB
SO: Proceedings-of-the-Indiana-Academy-of-Science. 1976, 86: 177-181; 5 ref.
LA: English
PT: Journal-article
AN: 780649645

Record 43 of 65 - TREECD 1973-1999/10
TI: Costs of top lopping old-growth hardwoods: what price beauty?
AU: Schick-BA; Maxey-WR
SO: Southern-Journal-of-Applied-Forestry. 1978, 2: 3, 94-95; 1 pl.; 1 ref.
LA: English
PT: Journal-article
AN: 780649200

Record 44 of 65 - TREECD 1973-1999/10
TI: Estimation of decay in old-growth western hemlock and Sitka spruce in southeast Alaska.
AU: Farr-WA; LaBau-VJ; Laurent-TH
SO: USDA-Forest-Service-Research-Paper,-Pacific-Northwest-Forest-and-Range-Experiment-Station. 1976, No. PNW-204, 24 pp. + sum; 2 tab.; 25 ref.
LA: English
PT: Miscellaneous
AN: 780647027

Record 45 of 65 - TREECD 1973-1999/10
TI: Old-growth Pseudotsuga menziesii communities of a western Oregon watershed: biomass distribution and production budgets.
AU: Grier-CC; Logan-RS
SO: Ecological-Monographs. 1977, 47: 4, 373-400; 3 pl.; 58 ref.
LA: English
PT: Journal-article
AN: 780646881

Record 46 of 65 - TREECD 1973-1999/10
TI: Lumber yields by the new timber cruising log grades for old-growth coast Douglas fir.
AU: Plank-ME; Henley-JW
SO: USDA-Forest-Service-Research-Paper,-Pacific-Northwest-Forest-and-Range-Experiment-station. 1976, No. PNW-203, 30 pp.; 8 ref.
LA: English
PT: Miscellaneous
AN: 780646737

Record 47 of 65 - TREECD 1973-1999/10
TI: Internal fungi in old-growth Douglas fir foliage.
AU: Bernstein-ME; Carroll-GC
SO: Canadian-Journal-of-Botany. 1977, 55: 6, 644-653; 6 fig., 2 tab.; 13 ref.
LA: English
LS: French
PT: Journal-article
AN: 771337024

Record 48 of 65 - TREECD 1973-1999/10
TI: Leaf area differences associated with old-growth forest communities in the western Oregon Cascades.
AU: Gholz-HL; Fitz-FK; Waring-RH
SO: Canadian-Journal-of-Forest-Research. 1976, 6: 1, 49-57; 34 ref.
LA: English
LS: French
PT: Journal-article
AN: 770640064

Record 49 of 65 - TREECD 1973-1999/10
TI: Growth and mortality after regeneration cuttings in old-growth Redwood.
AU: Boe-KN
SO: USDA-Forest-Service-Research-Paper,-Pacific-Southwest-Forest-and-Range-Experiment-Station. 1974, No. PSW-104, 13 pp.; 5 ref.
LA: English
PT: Miscellaneous
AN: 770638391

Record 50 of 65 - TREECD 1973-1999/10
TI: Pattern and seral composition in an old-growth Beech-Maple forest.
AU: Williamson-GB
SO: Ecology. 1975, 56: 3, 727-731; 19 ref.

LA: English
PT: Journal-article
AN: 770637713

Record 51 of 65 - TREECD 1973-1999/10
TI: Production rates and costs for cable, balloon, and helicopter yarding systems in old-growth Douglas-Fir.
AU: Dykstra-DP
SO: Research-Bulletin,-Forest-Research-Laboratory,-Oregon-State-University. 1975, No. 18, iv + 57 pp.; 39 ref.
LA: English
PT: Miscellaneous
AN: 760631054

Record 52 of 65 - TREECD 1973-1999/10
TI: Natural seedlings and sprouts after regeneration cuttings in old-growth Redwood.
AU: Boe-KN
SO: USDA-Forest-Service-Research-Paper,-Pacific-Southwest-Forest-and-Range-Experiment-Station. 1975, No. PSW-111, 17 pp.; 15 ref.
LA: English
PT: Miscellaneous
AN: 750628773

Record 53 of 65 - TREECD 1973-1999/10
TI: Breeding bird censuses in old-growth deciduous forests.
AU: Webster-JD; Adams-DL
SO: Proceedings-of-the-Indiana-Academy-of-Science. 1972, publ. 1973, 82: 198-206; APB; 56 ref.
LA: English
PT: Journal-article
AN: 750628448

Record 54 of 65 - TREECD 1973-1999/10
TI: Partial cutting in old-growth Lodgepole Pine.
AU: Alexander-RR
SO: USDA-Forest-Service-Research-Paper,-Rocky-Mountain-Forest-and-Range-Experiment-Station. 1975, No. RM-136, 17 pp.; 38 ref.
LA: English
PT: Miscellaneous
AN: 750626646

Record 55 of 65 - TREECD 1973-1999/10
TI: Fungal succession on needles and young twigs of old-growth Douglas Fir.
AU: Sherwood-M; Carrol-G
SO: Mycologia. 1974, 66: 3, 499-506; ORS; 14 ref.
LA: English
PT: Journal-article
AN: 750625320

Record 56 of 65 - TREECD 1973-1999/10
TI: Old-growth Coast Douglas-Fir log grades - a distribution analysis of existing log grades with a new four-grade system.
AU: Burck-MW
SO: USDA-Forest-Service-Research-Note,-Pacific-Northwest-Forest-and-Range-Experiment-Station. 1974, No. PNW-231, 5 pp.; 2 ref.
LA: English
PT: Miscellaneous
AN: 750624545

Record 57 of 65 - TREECD 1973-1999/10
TI: Veneer yields by the new timber cruising grades for old-growth coast Douglas-Fir.
AU: Woodfin-RO Jr.
SO: USDA-Forest-Service-Research-Paper,-Pacific-Northwest-Forest-and-Range-Experiment-Station. 1974, No. PNW-174, 34 pp.; 7 ref.
LA: English
PT: Miscellaneous
AN: 750624184

Record 58 of 65 - TREECD 1973-1999/10
TI: Occurrence of Rhizina root rot in an old-growth conifer stand in the Pacific Northwest.
AU: Morgan-PD; Wallin-EK; Driver-CH
SO: Plant-Disease-Reporter. 1974, 58: 6, 492-494; 7 ref.
LA: English
PT: Journal-article
AN: 740617515

Record 59 of 65 - TREECD 1973-1999/10
TI: Thinning promotes growth of sprouts on old-growth Redwood stumps.
AU: Boe-KN
SO: USDA-Forest-Service-Research-Note,-Pacific-Southwest-Forest-and-Range-Experiment-Station. 1974, No. PSW-290, 5 pp.; 2 ref.
LA: English
PT: Miscellaneous
AN: 740616241

Record 60 of 65 - TREECD 1973-1999/10
TI: Veneer recovery from old-growth Coast Douglas-Fir.
AU: Lane-PH; Woodfin-RO Jr.; Henley-JW; Plank-ME
SO: Lane, P. H.; Henley, J. W.; Woodfin, R. O., Jr.; Plank, M. E. : Lumber recovery from old-growth coast Douglas-Fir. USDA-Forest-Service-Research-Paper,-Pacific-Northwest-Forest-and-Range-Experiment-Station. 1973, No. PNW-162, 44 pp.; 9 ref.
LA: English
PT: Miscellaneous

AN: 740615966

Record 61 of 65 - TREECD 1973-1999/10
TI: Lumber recovery from old-growth coast Douglas-Fir.
AU: Lane-PH; Henley-JW; Woodfin-RO Jr.; Plank-ME
SO: USDA-Forest-Service-Research-Paper,-Pacific-Northwest-Forest-and-Range-Experiment-Station. 1973, No. PNW-154, 44 pp.; 4 ref.
LA: English
PT: Miscellaneous
AN: 740615965

Record 62 of 65 - TREECD 1973-1999/10
TI: Partial cutting in old-growth Spruce-Fir.
AU: Alexander-RR
SO: USDA-Forest-Service-Research-Paper,-Rocky-Mountain-Forest-and-Range-Experiment-Station. 1973, No. RM-110, 16 pp.; 27 ref.
LA: English
PT: Miscellaneous
AN: 740612540

Record 63 of 65 - TREECD 1973-1999/10
TI: Estimates of biomass and fixed nitrogen of epiphytes from old-growth Douglas-fir.
AU: Pike-LH; Tracy-DM; Sherwood-MA; Nielsen-D
SO: Proceedings - Research on coniferous forest ecosystems - A symposium. Bellingham, Washington - March 23-24, 1972. 1972, 177-187; 6 ref.
PB: Portland, Ore., Pacific Northwest Forest and Range Experiment Station.; USA
LA: English
PT: Conference-paper
AN: 730606395

Record 64 of 65 - TREECD 1973-1999/10
TI: Direct, nondestructive measurment of biomass and structure in living, old-growth Douglas-Fir.
AU: Denison-WC; Tracy-DM; Rhoades-FM; Sherwood-M
SO: Proceedings - Research on coniferous forest ecosystems - A symposium. Bellingham, Washington - March 23-24, 1972. 1972, 147-158; 9 ref.
PB: Portland, Ore., Pacific Northwest Forest and Range Experiment Station.; USA
LA: English
PT: Conference-paper
AN: 730606394

Record 65 of 65 - TREECD 1973-1999/10
TI: Partial cutting practices in old-growth Lodgepole Pine.
AU: Alexander-RR
SO: USDA-Forest-Service-Research-Paper,-Rocky-Mountain-Forest-and-Range-Experiment-Station. 1972, No. RM-92, 16 pp.; 35 ref.
LA: English
PT: Miscellaneous
AN: 720603395