

## Tree Planters' Notes

### Index for Volume 38 (1987)

#### Subject Index

##### **Abies**

*fraseri*. See Fraser fir

*procera*. See Noble fir

**Alnus rubra**. See Red alder

**Animal damage/control**. See also Insect damage/  
control

deer in Douglas-fir plantations, repellants  
for 38(3):22-25, Summer 1987

elk in Douglas-fir plantations, repellants for  
38(3):22-25, Summer 1987

nutria and baldcypress seedlings 38(3):26-29,  
Summer 1987

pocket gopher and black cherry, northern red oak  
38(4):31-36, Fall 1987

##### **Antitranspirant**

Cloud Cover 38(4):23-26, Fall 1987

Vapor Gard 38(1):26-30, Winter 1987

Wilt-pruf NCF 38(4):23-26, Fall 1987

X2-1337 38(4):23-26, Fall 1987

##### **Austrian pine**

bleach surface-sterilized seeds and Fusarium and  
damping-off 38(3):18-21, Summer 1987

seed germination 38(3):18-21, Summer 1987

##### **Autumn olive**

germination, stratification/temperature

recommendations 38(1):14-17, Winter 1987

seed treatment 38(1):14-17, Winter 1987

##### **Baldcypress**

nutria control trial 38(3):26-29, Summer 1987

Vexar plastic seedling protector 38(3):26-29, Summer  
1987

##### **Benomyl**

loblolly pine seedlings, cold-stored, effect on  
38(4):19-22, Fall 1987

sycamore seedlings, cold-stored, effect on  
38(1):26-30, Winter 1987

##### **Biomass production**

aboveground, of black cottonwood, red alder,  
*Eucalyptus* 38(4):27-30, Fall 1987

##### **Birch Quik-Tach Scalper**

advantages and disadvantages 38(1):3-5, Winter 1987

##### **Black cherry**

adaptability to northern California and 15-year

survival/growth results 38(4):31-36, Fall 1987

competition with grasses, forbs 38(4):31-36, Fall 1987

pocket gopher, deer, sawfly damage 38(4):3136, Fall  
1987

##### **Black cottonwood**

biomass production, aboveground 38(4):27-30, Fall  
1987

cutting survival 38(4):27-30, Fall 1987

early height growth 38(4):27-30, Fall 1987

frost tolerance 38(4):27-30, Fall 1987

##### **Black spruce**

antitranspirants, film-forming, effect on seedlings  
38(4):23-26, Fall 1987

plant moisture stress of seedlings 38(4):23-26, Fall 1987

seedlings, outplanted, survival 38(4):23-26, Fall 1987

##### **Black walnut**

adaptability to northern California and 15-year

survival/growth results 38(4):31-36, Fall 1987

soil moisture 38(4):31-36, Fall 1987

##### **Bleach, 40% laundry**

surface sterilization of seeds 38(3):18-21, Summer  
1987

##### **Brown spot**

benomyl 38(4):19-22, Fall 1987

longleaf pine, effect of seedling size on  
38(3):16-17, Summer 1987

**Bud dormancy**. See Dormancy, bud

**Carya illinoensis**. See Pecan

**Chemicals**. See specific names; Fungicides

**Chilling**. See Seedling storage, cold/frozen

**Christmas trees**. See Fraser fir

##### **Clearwater Yarder**

test results and recommendations 38(1):6-10, Winter  
1987

**Cloud Cover**

on black spruce seedlings 38(4):23-26, Fall 1987

**Cold hardiness**

cold-stored Douglas-fir, lodgepole pine, interior spruce seedlings 38(2):11-15, Spring 1987

*Eucalyptus macarthurii* and *E. viminalis* in Pacific Northwest 38(4):27-30, Fall 1987

method, simple, for evaluating whole plant 38(2):16-18, Spring 1987

**Cold storage.** See Seedling storage, cold/frozen

**Compost.** See also Soil treatment

sawdust-sludge, effect on 3 conifer species 38(2):22-27, Spring 1987

**Container-grown seedlings**

black spruce 38(4):23-26, Fall 1987

Douglas-fir 38(1):18-21, Winter 1987

Engelmann spruce 38(1):18-21, Winter 1987

Fraser fir 38(2):19-21, Spring 1987

limber pine 38(1):18-21, Winter 1987

lodgepole pine 38(1):18-21, Winter 1987

ponderosa pine 38(1):18-21, Winter 1987

tomato 38(1):24-25, Winter 1987

**Cost.** See Economics

**Cuttings.** See also Seedling growth/survival

black cottonwood, growth/survival 38(4):27-30, Fall 1987

**Damping-off**

seed surface sterilization effects on 4 conifer species 38(3):18-21, Summer 1987

**Deer Away** 38(3):22-25, Summer 1987

**Deer.** See also Animal damage/control

repellants on Douglas-fir plantations 38(3):22-25, Summer 1987

**Diseases.** See also Fungi, fungal disease

brown spot in longleaf pine 38(3):16-17, Summer 1987

*Fusarium* cotyledon blight in ponderosa pine 38(3):18-21, Summer 1987

phytophthora root rot control 38(4):37-39, Fall 1987

**Dormancy, bud**

Douglas-fir 38(2):11-15, Spring 1987

interior spruce 38(2):11-15, Spring 1987

lodgepole pine 38(2):11-15, Spring 1987

**Douglas-fir.** See also Rocky Mountain Douglas-fir

cold storage of seedlings 38(2):11-15, Spring 1987

deer and elk, repellants on Douglas-fir plantations 38(3):22-25, Summer 1987

grafts

leader growth 38(4):14-18, Fall 1987

plagiotropism 38(4):14-18, Fall 1987

root stock age effects 38(4):14-18, Fall 1987

nutrient and metal concentrations in compostgrown seedlings 38(2):22-27, Spring 1987

plantation seedlings, effects of deer repellants

38(3):22-25, Summer 1987

seedling growth

response to *Pisolithus tinctorius*

inoculation 38(1):18-21, Winter 1987

sawdust-sludge compost 38(2):22-27, Spring 1987

seedling physiology, effect of cold storage 38(2):11-15, Spring 1987

seedlings, cold-stored

bud dormancy status 38(2):11-15, Spring 1987

carbohydrate reserves 38(2):11-15, Spring 1987

cold hardiness 38(2):11-15, Spring 1987

root growth potential 38(2):11-15, Spring 1987

water relations 38(2):11-15, Spring 1987

storage of seedlings

cold 38(2):11-15, Spring 1987

freezer 38(2):7-10, Spring 1987

**Drought resistance.** See Moisture stress

**Eastern white pine**

prechilling, extended, effect on seeds 38(4): 6-9, Fall 1987

seeds fungal infection 38(4):6-9, Fall 1987

germination 38(4): 6-9, Fall 1987

**Economics**

- cost control, nursery operations and genetically improved seed 38(3):3-8, Summer 1987
- feasibility of growing black cherry, black walnut, and northern red oak in northern California 38(4):31-36, Fall 1987

*Elaeagnus umbellata*. See Autumn olive

**Elk**. See also Animal damage/control

- repellants, Douglas-fir plantations 38(3):22-25, Summer 1987

**Engelmann spruce** seedling growth response to *Pisolithus tinctorius* inoculations 38(1):18-21, Winter 1987

**Equipment**

- mist blower, Hardi-Combi I 38(4):3-5, Fall 1987
- nursery, custom-built, list of 40 available construction drawings 38(2):3-6, Spring 1987
- scarification
  - Birch Quik-Tach Scalper 38(1):3-5, Winter 1987
  - cable-yarder 38(1):6-10, Winter 1987
  - Rocky Mountain scalper 38(1):3-5, Winter 1987
- Vexar plastic seedling protector 38(3):26-29, Summer 1987
- wire girdle, loblolly pine grafts 38(3):33-35, Summer 1987

***Eucalyptus macarthurii***

- aboveground biomass production 38(4):27-30, Fall 1987
- frost damage 38(4):27-30, Fall 1987
- seed source/provenance stock 38(4):27-30, Fall 1987
- survival and early growth 38(4):27-30, Fall 1987

***Eucalyptus viminalis***

- aboveground biomass production 38(4):27-30, Fall 1987
- frost damage 38(4):27-30, Fall 1987
- seed source/provenance stock 38(4):27-30, Fall 1987
- survival and early growth 38(4):27-30, Fall 1987

**Fraser fir**

- cold storage and seedling growth 38(2):19-21, Spring 1987
- container-seedling growth acceleration 38(2):19-21, Spring 1987
- seed source effect on seedling growth 38(2):19-21, Spring 1987

**Freezer storage**. See Seedling storage, cold/ frozen

**Fumigation**. See Soil treatment

**Fungi, fungal disease**. See also Fungicides

*Fusarium* species

- bleach-sterilized seeds of 4 conifer species 38(3):18-21, Summer 1987
- sycamore seedlings, cold-stored 38(1):26-30, Winter 1987
- infection in white spruce and eastern white pine seeds 38(4):6-9, Fall 1987
- microorganisms on cold-stored sycamore seedlings 38(1):26-30, Winter 1987
- Phytophthora* species, control of in Pacific Northwest nurseries 38(4):37-39, Fall 1987
- Pisolithus tinctorius*, inoculation effects on 5 Rocky Mountain conifer species 38(1):18-21, Winter 1987

**Fungicides**

- benomyl
  - loblolly pine seedlings 38(4):19-22, Fall 1987
  - sycamore seedlings 38(1):26-30, Winter 1987
- bleach, 40% laundry, 4 conifer species 38(3):18-21, Summer 1987
- metalaxyl vs. phytophthora root rot 38(4):37-39, Fall 1987
- propiconazol, sycamore seedlings 38(1):26-30, Winter 1987

*Fusarium*. See Fungi, fungal disease

**Genetic improvement**

- genetically improved seed for nursery operations 38(3):3-8, Summer 1987
- loblolly pine, joint efforts in southern U.S. 38(3):33-35, Summer 1987

**Germination.** See Seed germination

**Grafting, Douglas-fir** 38(4):14-18, Fall 1987

**Greenhouse operations.** See Nursery operations;  
Equipment

**Growing media.** See *Soil* treatment

**Growth.** See Seedling growth/survival; Cuttings

**Hand tools.** See Equipment

**Hardi-Combi I mist blower** 38(4) :3-5, Fall 1987

**Heavy metals.** See Metals, heavy

**History plots.** See Nursery operations

**IFA-PNW cooperative tree improvement program**  
38(3):3-8, Summer 1987

**Implements.** See Equipment

**Insect damage/control**

sawfly and black cherry 38(4):31-36, Fall 1987  
termites, subterranean, and pecan seedlings  
38(2):28-30, Spring 1987

**Interior spruce**

cold-stored seedlings and bud dormancy 38(2):11-15,  
Spring 1987  
cold hardiness 38(2):11-15, Spring 1987  
root growth potential 38(2):11-15, Spring 1987

***Juglans nigra.*** See Black walnut

**Limber pine**

seedling growth response to *Pisolithus tinctorius*  
inoculation 38(1):18-21, Winter 1987

**Liqua Gel**

use on cold-stored sycamore seedlings  
38(1):26-30, Winter 1987

***Liriodendron tulipifera.*** See Yellow-poplar

**Loblolly pine**

droughty sites, outplanting on 38(4):19-22, Fall 1987  
genetic improvement 38(3):33-35, Summer 1987  
male flower production, effect of wire girdle on graft  
38(3):33-35, Summer 1987  
pollen distribution in seed orchard 38(4):3-5, Fall 1987

seed yield increase, effect of mist blower  
38(4):3-5, Fall 1987

seedling survival-sowing date relationship  
38(4):19-22, Fall 1987

seedlings, stored, survival affected by:  
benomyl root dip 38(4):19-22, Fall 1987  
seedling height 38(4):19-22, Fall 1987  
shoot-to-root ratio 38(4):19-22, Fall 1987

**Lodgepole pine**

seedling growth response to *Pisolithus tinctorius*  
inoculation 38(1):18-21, Winter 1987  
seedlings, cold-stored bud dormancy 38(2):11-15, Spring  
1987  
cold hardiness 38(2):11-15, Spring 1987  
freezer storage practices 38(2):7-10, Spring 1987  
root growth potential 38(2):11-15, Spring 1987

**Longleaf pine**

brown spot 38(3):16-17, Summer 1987  
seedling size-survival/growth 38(3):16-17, Summer 1987

**Lorsban 4E**

vs. subterranean termites in pecan seedlings  
38(2):28-30, Spring 1987

***Lycopersicon esculentum var. pelican.*** See  
Tomato

**Machinery.** See Equipment

**Metals, heavy**

concentrations in roots of sawdust-sludge-composted  
conifer seedlings 38(2):22-27, Spring 1987

**Mine spoil reclamation**

autumn olive 38(1):14-17, Winter 1987

**Moisture retention**

sycamore, Liqua-Gel 38(1):26-30, Winter 1987  
tomato seedlings, Terra-sorb 38(1):24-25, Winter 1987

**Moisture stress**

antitranspirants, 3 film-forming, effect  
on 38(4):23-26, Fall 1987

- black spruce outplanted seedlings 38(4):23-26, Fall 1987  
 cold-stored western conifer seedlings 38(2):11-15, Spring 1987  
 loblolly pine 38(4):19-22, Fall 1987  
 northern California—black walnut, black cherry, northern red oak 38(4):31-36, Fall 1987
- Mycorrhizae**  
 ectomycorrhizal association with stunting of white spruce 38(1):22-23, Winter 1987  
 Pisolithus tinctorius, inoculation of 5 Rocky Mountain conifer species 38(1):18-21, Winter 1987
- Myocaster coypu.** See Nutria
- Noble fir**  
 freezer-storage practices 38(2):7-10, Spring 1987  
 growth in sawdust-sludge compost 38(2):22-27, Spring 1987  
 nutrient/heavy metal concentrations 38(2):22-27, Spring 1987
- North Carolina State University-Industry Tree Improvement Cooperative** 38(3):33-35, Summer 1987
- Northern red oak**  
 adaptability to northern California and 10-year survival/growth results 38(4):31-36, Fall 1987  
 pocket gopher/soil moisture major factors 38(4):31-36, Fall 1987
- Nursery operations.** See also Equipment  
 antitranspirants, black spruce seedlings 38(4):23-26, Fall 1987  
 chilling, Fraser fir seedlings 38(2):19-21, Spring 1987  
 cold hardiness, simple method for evaluating whole plant 38(2):16-18, Spring 1987  
 cold storage  
 Douglas-fir seedlings 38(2):11-15, Spring 1987  
 lodgepole pine seedlings 38(2):11-15, Spring 1987  
 interior spruce seedlings 38(2):11-15, Spring 1987  
 compost, sawdust-sludge, for 3 conifer species 38(2):22-27, Spring 1987  
 freezer-storage practices for western conifer seedlings 38(2):7-10, Spring 1987  
 fungal disease control  
 eastern white pine 38(4):6-9, Fall 1987  
 phytophthora root rot 38(4):37-39, Fall 1987  
 sycamore 38(1):26-30, Winter 1987  
 western conifers 38(3):18-21, Summer 1987  
 white spruce 38(4):6-9, Fall 1987  
 germination recommendations  
 Austrian pine 38(3):18-21, Summer 1987  
 autumn olive 38(1):14-17, Winter 1987  
 eastern white pine 38(4):6-9, Fall 1987  
 pin cherry 38(3):30-32, Summer 1987  
 ponderosa pine 38(3):18-21, Summer 1987  
 Rocky Mountain Douglas-fir 38(3):18-21, Summer 1987  
 Scotch pine 38(3):18-21, Summer 1987  
 white spruce 38(4):6-9, Fall 1987  
 history plots  
 applications to nursery management 38(3):9-15, Summer 1987  
 installation 38(3):9-15, Summer 1987  
 monitoring 38(3):9-15, Summer 1987  
 seedling growth curves and phenology 38(3):9-15, Summer 1987  
 sowing rate factors 38(3):9-15, Summer 1987  
 longitudinal splitting, propagation technique, yellow poplar 38(4):10-13, Fall 1987  
 management 38(3):9-15, Summer 1987  
 packaging, freezer-stored western conifers 38(2):7-10, Spring 1987  
 phytophthora root rot management in Pacific Northwest conifer nurseries 38(4):37-39, Fall 1987

*Pisolithus tinctorius* inoculation of conifer container seedlings 38(1):18-21, Winter 1987  
prechilling, extended, of white spruce and eastern white pine  
fungal infection of seeds 38(4):6-9, Fall 1987  
germination 38(4):6-9, Fall 1987  
seed, surface sterilization with bleach 38(3):18-21, Summer 1987  
seed-use efficiency improvement 38(3):9-15, Summer 1987  
soil treatment  
crusting prevention, ponderosa pine 38(1):11-13, Winter 1987  
fumigation, white spruce 38(1):22-23, Winter 1987  
water-holding capacity soil amendment 38(1):24-25, Winter 1987  
sowing 38(3):9-15, Summer 1987  
storage  
cold, of conifer seedlings 38(2):11-15, Spring 1987  
freezer, practices for western conifer seedlings 38(2):7-10, Spring 1987  
termite prevention, pecan seedlings 38(2):28-30, Spring 1987  
tree improvement  
implications for nursery management 38(3):3-8, Summer 1987  
key leverage points for nursery system 38(3):3-8, Summer 1987  
seed, genetically improved 38(3):3-8, Summer 1987  
seedling quality improvement 38(3):9-15, Summer 1987

**Nutria.** See also Animal damage/control  
baldcypress seedling damage 38(3):26-29, Summer 1987  
control trial with Vexar seedling protectors 38(3):26-29, Summer 1987

#### **Nutrient concentration levels**

carbohydrate reserves, cold-stored Douglas fir 38(2):11-15, Spring 1987

in 3 compost-grown conifer species 38(2):22-27, Spring 1987

#### **Pacific Northwest**

*Eucalyptus macarthurii* and *E. viminalis* 38(4):27-30, Fall 1987

#### **Packaging practices**

freezer-stored western conifers 38(2):7-10, Spring 1987

Pecan termites, subterranean, damage to seedlings 38(2):28-30, Spring 1987

**Pest control.** See Animal damage/control; Insect damage/control

#### **Phytophthora root rot**

chemical management—fumigants, fungicides, chlorination, metalaxyl 38(4):37-39, Fall 1987  
cultural management—water, sanitation, resistant species 38(4):37-39, Fall 1987

#### **Picea**

*engelmannii.* See Engelmann spruce  
*glauca.* See White spruce  
*glauca-engelmannii* complex. See Interior spruce  
*mariana.* See Black spruce

#### **Pin cherry**

seed germination and temperature fluctuation influence 38(3):30-32, Summer 1987

#### **Pinus**

*contorta.* See Lodgepole pine  
*flexilis.* See Limber pine  
*nigra.* See Austrian pine  
*palustris.* See Longleaf pine  
*ponderosa.* See Ponderosa pine  
*strobus.* See Eastern white pine  
*sylvestris.* See Scotch pine  
*taeda.* See Loblolly pine

#### **Pisolithus tinctorius**

Douglas-fir 38(1):18-21, Winter 1987  
Engelmann spruce 38(1):18-21, Winter 1987  
limber pine 38(1):18-21, Winter 1987

lodgepole pine 38(1):18-21, Winter 1987

ponderosa pine 38(1):18-21, Winter 1987

#### **Plagiotropism**

Douglas-fir grafts 38(4):14-18, Fall 1987

**Plant moisture stress.** See also Moisture stress

outplanted black spruce seedlings 38(4):23-26, Fall 1987

**Platanus occidentalis.** See Sycamore

**Pocket gopher damage.** See also Animal damage/ control

black cherry in northern California 38(4):31-36, Fall 1987  
northern red oak in northern California 38(4):31-36, Fall 1987

#### **Pollen**

distribution

guidelines for use of mist blower 38(4):3-5, Fall 1987

loblolly pine, effects of mist blower 38(4):3-5, Fall 1987

production

loblolly pine, effects of wire girdle 38(3):33-35, Summer 1987

#### **Ponderosa pine**

*Fusarium* and damping-off 38(3):18-21, Summer 1987

germination of bleach surface-sterilized seed 38(3):18-21, Summer 1987

heavy metal concentrations in compost-grown seedlings 38(2):22-27, Spring 1987

nutrient concentrations in compost-grown seedlings 38(2):22-27, Spring 1987

seedling freezer-storage practices 38(2):7-10, Spring 1987

seedling growth

*Pisolithus tinctorius* inoculations, response to 38(1):18-21, Winter 1987

sawdust-sludge compost 38(2):22-27, Spring 1987

seed covering materials, test results 38(1):11-13, Winter 1987

**Populus trichocarpa.** See Black cottonwood

#### **Propiconazol**

use on cold-stored sycamore seedlings 38(1):26-30, Winter 1987

**Provenance.** See Seed source

#### **Prunus**

*pennsylvanica.* See Pin cherry

*serotina.* See Black cherry

**Pseudotsuga menziesii.** See Douglas-fir

**Pseudotsuga menziesii var. glauca.** See Rocky

Mountain Douglas-fir

**Quercus rubra.** See Northern red oak

#### **Red alder**

biomass production, aboveground 38(4):27-30, Fall 1987

early height growth 38(4):27-30, Fall 1987

frost tolerance 38(4):27-30, Fall 1987

seedling survival 38(4):27-30, Fall 1987

#### **Reforestation**

Pacific Northwest tree improvement status 38(3):3-8, Summer 1987

seed orchards role 38(3):3-8, Summer 1987; 38(3):33-35, Summer 1987

site preparation equipment 38(1):3-5, Winter 1987; 38(1):6-10, Winter 1987

#### **Repelliff**

use on deer and elk 38(3):22-25, Summer 1987

**Reticulitermes flavipes.** See Termites,

subterranean

**RGP.** See Root growth potential

**Rocky Mountain Douglas-fir.** See also Douglas-fir

*Fusarium* and damping-off 38(3):18-21, Summer 1987

germination of bleach surface-sterilized seed 38(3):18-21, Summer 1987

**Rocky Mountain Scalper** 38(1):3-5, Winter 1987

#### **Root collar diameter**

effect on longleaf pine seedling

growth 38(3):16-17, Summer 1987

### Root disease

Fusarium species 38(3):18-21, Summer 1987  
phytophthora root rot 38(4):37-39, Fall 1987

### Root growth potential, cold-stored seedlings

Douglas-fir 38(2):11-15, Spring 1987  
interior spruce 38(2):11-15, Spring 1987  
lodgepole pine 38(2):11-15, Spring 1987

### Rootstock age

effect on Douglas-fir grafts 38(4):14-18, Fall 1987

**Scarification equipment** 38(1):3-5, Winter 1987; 38(1):6-10, Winter 1987

**Scirrhia acicola.** See Brown spot

### Scotch pine

*Fusarium* and damping-off 38(3):18-21, Summer 1987  
germination of bleach surface-sterilized seed 38(3):18-21, Summer 1987

### Seed, genetically improved

nursery manager, implications for 38(3):3-8, Summer 1987  
Pacific Northwest, review of 38(3):3-8, Summer 1987  
production system economics 38(3):3-8, Summer 1987

### Seed germination

Austrian pine, bleach sterilization treatment 38(3):18-21, Summer 1987  
autumn olive, stratification/temperature recommendations 3(1):14-17, Winter 1987  
eastern white pine, effect of prechilling 38(4):6-9, Fall 1987  
pin cherry, recommendations for 38(3):30-32, Summer 1987  
ponderosa pine, bleach sterilization treatment 38(3):18-21, Summer 1987  
Rocky Mountain Douglas-fir, bleach sterilization treatment 38(3):18-21, Summer 1987  
Scotch pine, bleach sterilization treatment 38(3):18-21, Summer 1987  
white spruce, effect of prechilling 38(4):6-9, Fall 1987

### Seed orchard

Douglas-fir region 38(3):3-8, Summer 1987  
loblolly pine 38(3):33-35, Summer 1987; 38(4):3-5, Fall 1987

### Seed source

*Eucalyptus* 38(4):27-30, Fall 1987  
Fraser fir 38(2):19-21, Spring 1987

### Seed, sowing

family 38(3):3-8, Summer 1987  
loblolly pine, time of 38(4):19-22, Fall 1987  
recommendations based on history plots 38(3):9-15, Summer 1987

### Seed treatment. See also Seed germination

coverings, effect on ponderosa pine 38(1):11-13, Winter 1987  
prechilling, extended  
eastern white pine 38(4):6-9, Fall 1987  
germination/fungal infection, effects on 38(4):6-9, Fall 1987  
white spruce 38(4):6-9, Fall 1987  
sterilization, surface, with bleach, of 4 conifer species 38(3):18-21, Summer 1987  
stratification  
autumn olive 38(1):14-17, Winter 1987  
pin cherry 38(3):30-32, Summer 1987  
temperature  
autumn olive 38(1):14-17, Winter 1987  
pin cherry 38(3):30-32, Summer 1987

### Seedling growth/survival

baldcypress 38(3):26-29, Summer 1987  
black cherry 38(4):31-36, Fall 1987  
black spruce 38(4):23-26, Fall 1987  
black walnut 38(4):31-36, Fall 1987  
Douglas-fir 38(1):18-21, Winter 1987;  
38(2):7-10, Spring 1987; 38(2):22-27, Spring 1987; 38(3):22-25, Summer 1987  
Engelmann spruce 38(1):18-21, Winter 1987  
*Eucalyptus macarthurii* 38(4):27-30, Fall 1987  
*Eucalyptus viminalis* 38(4):27-30, Fall 1987  
Fraser fir 38(2):19-21, Spring 1987  
limber pine 38(1):18-21, Winter 1987  
loblolly pine 38(4):19-22, Fall 1987  
lodgepole pine 38(1):18-21, Winter

- 1987; 38(2):7-10, Spring 1987  
 longleaf pine 38(3):16-17, Summer 1987  
 noble fir 38(2):7-10, Spring 1987; 38(2):22-27, Spring 1987  
 northern red oak 38(4):31-36, Fall 1987  
 pecan 38(2):28-30, Spring 1987  
 ponderosa pine 38(1):11-13, Winter 1987; 38(1):18-21, Winter 1987; 38(2):7-10, Spring 1987; 38(2):22-27, Spring 1987  
 red alder 38(4):27-30, Fall 1987  
 sycamore 38(1):26-30, Winter 1987  
 tomato 38(1):24-25, Winter 1987  
 western hemlock 38(2):7-10, Spring 1987  
 white spruce 38(1):22-23, Winter 1987  
 yellow poplar 38(4):10-13, Fall 1987
- Seedling storage, cold/frozen**  
 method  
 Fraser fir 38(2):19-21, Spring 1987  
 loblolly pine 38(4):19-22, Fall 1987  
 sycamore 38(1):26-30, Winter 1987  
 western conifers 38(2):7-10, Spring 1987  
 seedling physiology, effects on  
 Douglas-fir 38(2):11-15, Spring 1987  
 interior spruce 38(2):11-15, Spring 1987  
 lodgepole pine 38(2):11-15, Spring 1987
- Site preparation**  
 scarification equipment 38(1):3-5, Winter 1987; 38(1):6-10, Winter 1987  
 steep slopes, cable-yarder alternative 38(1):610, Winter 1987
- Soil moisture.** See Moisture stress
- Soil treatment**  
 amendment, tomato water-holding capacity 38(1):24-25, Winter 1987  
 crusting prevention in nurseries, ponderosa pine 38(1):11-13, Winter 1987  
 fumigation-mycorrhizae-stunting relationship, white spruce 38(1):22-23, Winter 1987  
 sawdust-sludge compost, 3 conifer species 38(2):22-27, Spring 1987
- Sowing.** See Seed, sowing
- Storage.** See Seedling storage, cold/frozen

**Stratification.** See Seed treatment; Seed germination

**Stunting**

white spruce 38(1):22-23, Winter 1987

**Survival.** See Seedling growth/survival; Cuttings

**Sycamore**

cold-stored seedlings and chemical treatment effects 38(1):26-30, Winter 1987  
 dieback 38(1):26-30, Winter 1987

***Taxodium distichum.*** See Baldcypress

**Termites**

subterranean, damage to pecan seedlings 38(2):28-30, Spring 1987

**Terra-sorb**

use in container tomatoes 38(1):24-25, Winter 1987

***Thomomys spp.*** See Pocket gopher

**Tomato**

container seedlings, water-holding capacity 38(1):24-25, Winter 1987  
 wilting, effect of Terra-sorb 38(1):24-25, Winter 1987

**Tools.** See Equipment

**Tree improvement**

Pacific Northwest, review and implications for nursery manager 38(3):3-8, Summer 1987  
 South, loblolly pine genetic base 38(3):33-35, Summer 1987

***Tsuga heterophylla.*** See Western hemlock

**Vapor Gard**

effect on cold-stored sycamore seedlings 38(1):26-30, Winter 1987

**Vexar seedling protector**

effect on baldcypress 38(3):26-29, Summer 1987

**Water.** See *also* Moisture retention; Moisture stress management practices vs. phytophthora root rot 38(4):37-39, Fall 1987  
 relationship with cold-stored conifer seedlings 38(2):11-15, Spring 1987

testing for contamination by *Phytophthora*  
species 38(4):37-39, Fall 1987

**Western hemlock**

freezer-storage practices for seedlings 38(2):7-10,  
Spring 1987

**White spruce**

mycorrhizal fungi and soil fumigation 38(1):22-23, Winter  
1987

seeds

fungal infection 38(4):6-9, Fall 1987

germination 38(4):6-9, Fall 1987

prechilling, extended 38(4):6-9, Fall 1987

stunting, ectomycorrhizal deficiency 38(1):22-23, Winter  
1987

**Wilt-pruf NCF**

black spruce seedlings 38(4):23-26, Fall 1987

**X2-1337**

black spruce seedlings 38(4):23-26, Fall 1987

**Yellow-poplar**

propagation technique 38(4):10-13, Fall 1987

seedlings, longitudinally split, survival 38(4):10-  
13, Fall 1987