ALASKA FOREST REGENERATION CENTER

Why Regenerate Forests?

Regeneration of Alaska's forests will provide jobs, encourage investment by the forest industry, sustain aesthetic values of forest land, and may help diminish global changes in climate. Existing programs for producing and planting trees in Alaska are not sufficient to regenerate forests completely following harvesting, burning, or destruction by insects or disease. Recent damage by the spruce bark beetle alone has impacted 1.9 million acres of forest land in Alaska. Without sufficient production of tree seedlings and a tree planting program, state-owned forest land cannot be managed for high levels of sustained yields. Thus, timber sales must be curtailed, and jobs and other benefits derived from healthy forests will diminish.

What Can Be Done?

The Alaska Reforestation Council recommends an expanded Forest Regeneration Center at Eagle River, Alaska, and a coordinated tree planting program in the northern, southcentral and southeastern regions of the state. This commitment will produce high quality tree seedlings to rehabilitate areas devastated by insects or fire, reclaim state-owned forest land that is currently understocked, and support applied research to insure successful reforestation. Projected benefits include the annual production of 1,600,000 tree seedlings. Approximately one-half of these will be planted on state land. The remainder will be sold to private land owners for use in reforestation required by the Forest Practices Act. Operational programs for site preparation and tree planting in the various regions of Alaska are included in the reforestation program. Approximately 70 percent of the funds for this work will be allocated for contracts in local communities.

How Should the Center Be Funded?

Much of Alaska's need for reforestation involves land owned and managed by the state. Thus, the Alaska Reforestation Council recommends that General Fund appropriations be provided for the production of tree seedlings at the Forest Regeneration Center, and for subsequent contracts for planting trees. Current legislation permits use of a portion of the income obtained from timber sales on state-owned land to support reforestation. However, appropriations must be made each year for this purpose. In the short term, this investment will provide reforestation on forest land owned by the state, avoid the necessity of buying seedlings outside of Alaska, and provide training and jobs in reforestation in cooperating communities. In the long term, it will regenerate Alaska's forest lands and provide sustained yields of superior quality trees for future generations in the Great Land.

What is the Alaska Reforestation Council?

The Alaska Reforestation Council is a non-profit corporation organized in 1988 to: (1) improve forest management in Alaska, (2) promote the development and use of high quality seedlings for reforestation, (3) support the development of a tree nursery system in Alaska, and (4) promote a tree improvement program in the state. Council membership includes individuals with private businesses, conservation groups, Native corporations, state and federal agencies, the University of Alaska, and the general public.

How Soon Will the Center Be Operating?

Present support is insufficient to continue the production of tree seedlings at the forest nursery in Eagle River. If funding is provided by the Alaska State Legislature for FY 1991 to develop the Alaska Forest Regeneration Center, the production of seedlings could be initiated immediately. Capital improvements to enhance the production of seedlings and contracts for planting would begin in 1990; full production would occur by 1993.

What Are the Costs?

An Alaska Forest Regeneration Center requires an initial appropriation for capital improvements at Eagle River, Alaska, and annual appropriations for operations to produce tree seedlings and carry out reforestation on forest land owned by the state.

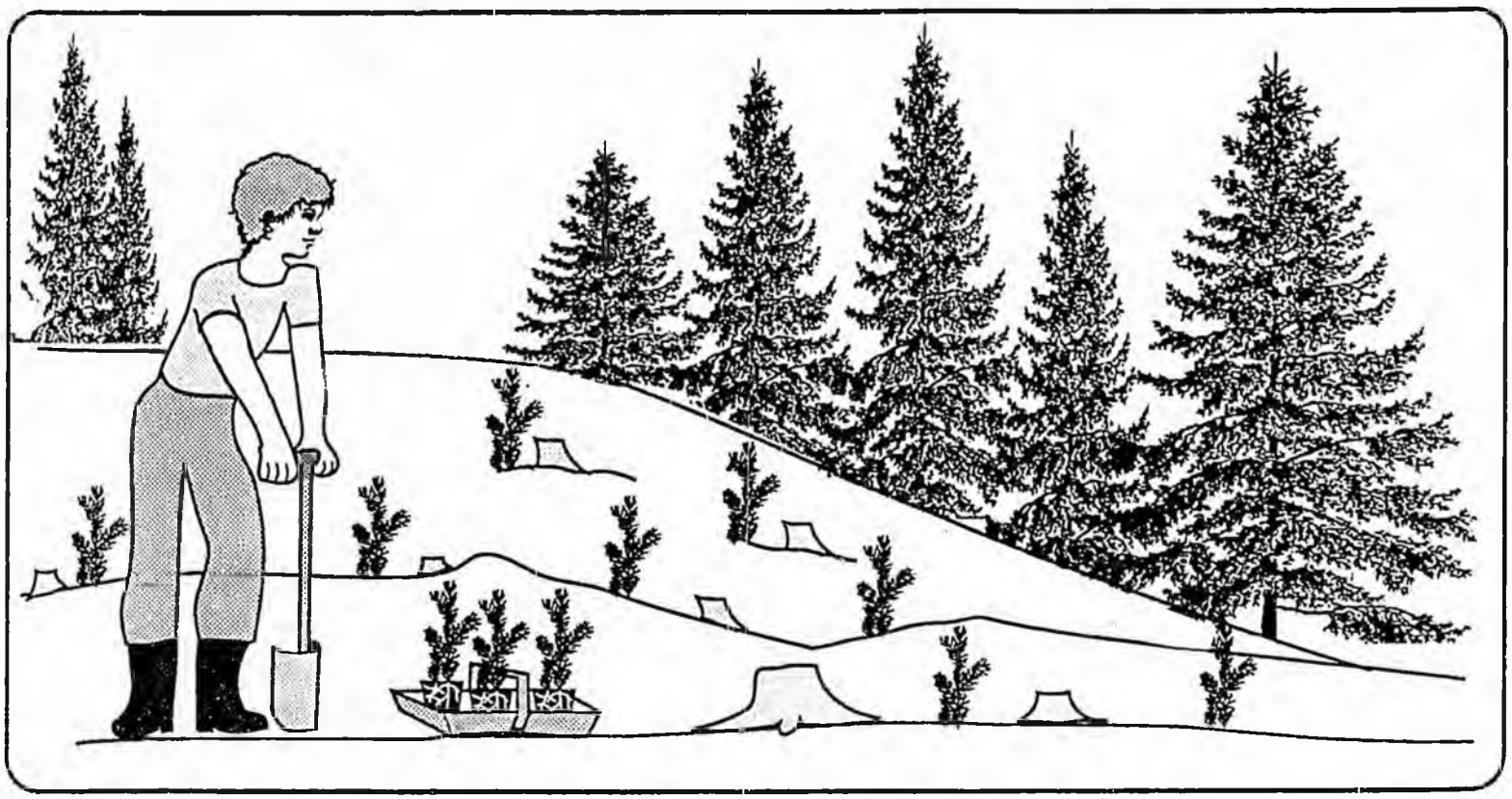
Capital improvement of center (one-time only)		$1,052,000
Annual operations at center	$820,000	
Annual expenditures for reforestation on state land:		
Northern Region	543,800	
Southcentral Region	107,100	
Southeast Region	90,100	
		1,561,000
TOTAL		$2,613,000

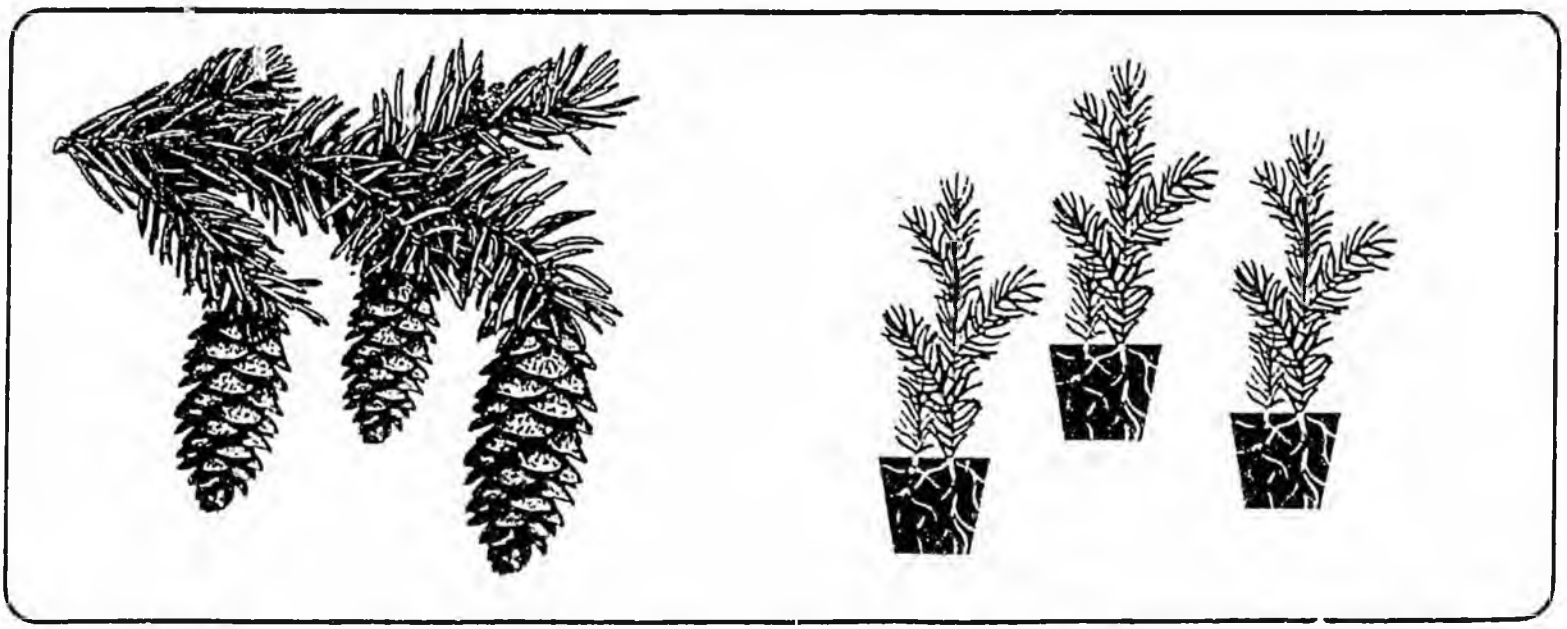
The future of Alaska's forests depends on investment now in the Alaska Forest Regeneration Center and a reforestation program. These forests will continue to provide increased economic and social benefits for Alaskans as projected declines in petroleum production result in decreased revenue to the state. Benefits range from jobs in the production and processing of wood products to enhanced tourism associated with recreation and wildlife values.

The Alaska Forest Regeneration Center will produce genetically superior trees for reforestation in areas where trees have been harvested, burned, or killed by insects. Reforestation will increase sustained timber yields, provide training and jobs for youth, and enhance the scenic beauty of forest land. In addition, high levels of sustained yields will permit expanded harvest of timber on state lands designated for wood production.

Good stewardship of forest land will benefit Alaskans well into the future. Now is the time to invest in reforestation for jobs today and for sustained forest yields tomorrow. *When the oil stops flowing, the trees will be growing.*

SUPPORT THE ALASKA FOREST REGENERATION CENTER





SENATE COMMITTEE REPORT
FIRST COMMITTEE OF REFERRAL

DATE: 3/2/90

FURTHER: Finance

Date of 5-Day Notice: 3-1-90
(in accordance with Uniform Rule 23)

DATE TURNED INTO OFFICE: 3-5-90

Resources Committee considered SB 511

"An Act making special appropriations to the Department of Natural Resources for reforestation; and providing for an effective date."

and recommended:

[ ] replace with _____ CS _____ [ ] same title [ ] new title

[ ] attached amendment(s)

[ ] _____ letter of intent adopted

[✓] do pass

[ ] do not pass

[ ] no recommendation

[ ] individual recommendations

[ ] further referral to _____

ATTACHES NEW FISCAL NOTE(S):

Department(s)/Date:	Department(s)/Date:
[ ] fiscal note(s) _____	[ ] zero fiscal note(s) _____
[✓] appropriation-no fiscal note	[ ] Governor's bill w/fiscal note

SIGNING DO PASS:

OTHER RECOMMENDATIONS:

Rick Halford NO REC

~~Fred E. Zharoff NO REC~~

Fahrenkamp Do Pass

Chair: Signature and Recommendation

United States Department of Agriculture | Forest Service | Pacific Northwest Research Station | Forestry Sciences Laboratory
308 Tanana Drive
Fairbanks, Alaska 99775-5500
(907)474-8163 FAX(907)474-3350

Reply To: 4000

Date: February 15, 1990

Senator Bettye Fahrenkamp
Alaska State Legislature
P.O. Box V
Juneau, AK 99811

Dear Senator Fahrenkamp:

I am again asking for your support in contacting the Alaska Congressional Delegation in Washington for funds to support forestry research at the Institute of Northern Forestry in Fairbanks. The funding proposed for the Institute of Northern Forestry by the President's Budget for FY 1991 includes reductions of $150,000 and $100,000. Restoration of funds to support research on white spruce regeneration and tree improvement in Alaska are high priority funding needs for FY 1991. This research is done in cooperation with the Forest Tree Improvement Cooperative of the Alaska Reforestation Council. The Reforestation Council is presently seeking funds from the Alaska State Legislature to develop an Alaska Forest Regeneration Center. Reductions in the federal research program could severely impact the cooperative programs between the Institute of Northern Forestry and the Alaska Division of Forestry's regeneration program.

Enclosed is a statement of the impact this reduction would have on our program and a list of contacts in Washington who are involved in the Forest Service budget process.

Sincerely,

Skeeter Werner

RICHARD A. WERNER
Project Leader

Encl: 2

PNW-4351, Ecology and Management of Taiga and Associated Environmental Systems in Interior and Southcentral Alaska
Fairbanks, AK

This unit develops improved understanding of disturbed and undisturbed taiga forests--the northernmost commercial forests of North America--and associated environments, to improve the base of knowledge for resource management and stewardship. Particular attention is paid to direct and indirect consequences of resource development, wildfire, and insects and diseases on wildlife habitats, timber and forage production; soil and water quality, and landscape stability; and wildlife/habitat relationships in the taiga of interior Alaska. This research unit is the only forest resources research entity (state, federal, or university) in the high-latitude boreal forest of the United States.

This unit also provides information concerning integrated management of the forests of south-central and interior Alaska; silvicultural options for white spruce, mixed spruce/hardwood, and hardwood forest stands; wildfire consequences for forest succession and long-term productivity; consequences for hydrologic regimen, sediment production and stream quality of forest management practices in taiga upland forests; forest pathogen and insect problems and remedial measures, with emphasis on high-value white spruce stands; habitat management to enhance moose populations; and forest genetics and seed provenance implications for reforestation and afforestation in forests of south-central and interior Alaska. This unit is a key component of the Station's global climate change program.

The funding proposed for this unit by the President's Budget for FY 1991 includes reductions of $150,000 and $100,000 to the unit's 1990 funding as described by the Planned Program Base.

The impact of these reductions would be to delay research on white spruce regeneration and tree improvement which involves field trials with superior strains of spruce in geographic areas of Alaska and to delay technology for reforestation. The program is an absolute necessity if Alaska is to build a long-term forest industry in interior and south-central regions of the state. This research is in cooperation with the Forest Tree Improvement Cooperative of the Alaska Reforestation Council. Reduction of this research would affect all members of the cooperative.

Restoration of the $250,000 will maintain the research needed to continue a viable reforestation program in Alaska. In addition, it would maintain the cooperative work with the Forest Tree Improvement Cooperative.

Agency Capability Increase List

	Research Unit	Narrative	Funding
TMR 13	PNW-4351 Fairbanks	Restore research on white spruce regeneration and classification of interior Alaska ecosystems.	$150,000
TMR 21	PNW-4351 Fairbanks	Continue research and management and tree improvement of white spruce in interior Alaska forests.	$100,000

Congressional Contacts for Forest Service Budget

House Appropriations Subcommittee for Interior and Related Agencies

Honorable Sidney R. Yates, Chairman
B-308 Rayburn House Office Building
U.S. House of Representatives
Washington, DC 20515

House Committee on Interior and Insular Affairs

Honorable Morris K. Udall, Chairman
1324 Longworth House Office Building
U.S. House of Representatives
Washington, DC 20515

Senate Committee on Energy and Natural Resources

Honorable J. Bennett Johnston, Chairman
Suite SD-364, Dirkson Senate Office Building
U.S. Senate
Washington, DC 20510

Honorable Ted Stevens
United States Senate
522 Hart Senate Office Building
Washington, DC 20510-6025

Honorable Frank Murkowski
United States Senate
709 Hart Senate Office Building
Washington, DC 20510-6025

Honorable Don Young
United States House of Representatives
Rayburn House Office Building
Washington, DC 20515

Sec. 41.17.300. State land reforestation fund. A state land reforestation fund is established in the department. The money in the state land reforestation fund may be used only for the reforestation of state land, including site preparation, seed and seedling acquisition and cultivation, planting, and other reforestation measures, timber stand improvement, and the development of materials and techniques for the reforestation of state land. (§ 2 ch 91 SLA 1983)

Sec. 41.17.310. Appropriations to state land reforestation fund. (a) The state land reforestation fund consists of money appropriated by the legislature and contributions from private donors. It is the intent of the legislature that the appropriations made to the fund equal no less than 25 percent of the revenues from the sale of timber and other forest products from state land as well as the total revenues from

(1) compensation for loss or damage to land within a state forest; and

(2) the federal government and other governmental units for reforestation.

(b) Money appropriated to or paid into the state land reforestation fund does not lapse. (§ 2 ch 91 SLA 1983)

Sec. 41.17.320. Report to the legislature. The commissioner shall make an annual report to the legislature within the first 10 days of each session of the legislature on the uses of the money in the state land reforestation fund, the proposed uses of the fund in the following fiscal year, and the balance in the fund. (§ 2 ch 91 SLA 1983)

Article 5. Tanana Valley State Forest.

Section
400. Tanana Valley State Forest

Sec. 41.17.400. Tanana Valley State Forest. (a) Subject to valid existing rights and except for land owned by or transferred to the University of Alaska under a settlement agreement between the state and the university, the state-owned or acquired land and water lying within the parcels described in (d) of this section is designated as the Tanana Valley State Forest.

(b) The commissioner shall prepare a management plan for the Tanana Valley State Forest under AS 41.17.230.

(c) In addition to the uses described in AS 41.17.230(e), the commissioner may establish transportation corridors within the Tanana Valley State Forest.

(d) The Tanana Valley State Forest includes the state-owned or acquired land and water lying within the following described parcels:

ALASKA FOREST REGENERATION CENTER

Program Description

Provide a dependable supply of high quality forest seedlings to Alaska's landowners. Seedlings would be grown to meet the requirements of AS 41.17; rehabilitate the areas devastated by the spruce bark beetle; reclaim areas currently understocked on State lands; and allow continued forest research. The existing nursery program is severely understaffed, underfunded and ill-equipped to meet the challenges that it now faces. This program would provide for the growing of the needed seedlings and the reforestation of State lands.

The projected distribution of the 1.6 million seedlings that would be grown annually includes: 350,000 to the USDA-Forest Service; 50,000 for research; 417,200 for private landowners; and 782,800 (with planting funds) for State lands. By implementing this budget, the legislature will be indicating its support for professional treatment of State owned land and preclude the necessity of forest managers having trees grown out-of-state. Training would be provided to residents of cooperating communities in the care and growing of seedlings.

On State lands the emphasis of this program is to generate contracts for private sector field accomplishments that will provide much needed stable job opportunities in rural areas. The following would be accomplished by State Region (State land only):

DESCRIPTION	NORTHERN REGION	SOUTHCENTRAL REGION	SOUTHEAST REGION
Acres Planted	1008	227	125
Acres Seeded	670	55	-0-
Acres Site Preparation	1975	271	232
Acres Regeneration Survey	1660	390	1100
Estimated contracts to issue	30	7	5

Spruce bark beetles are presently causing significant mortality on nearly 200,000 acres around Southcentral and the Interior. A large portion of these acres must be reforested using state-of-the-art techniques if they are to regain their productivity. The investment in planting requires the use of high quality seedlings with high survival potential. This program would meet that need.

AS 41.17.060(4) directs that "... if artificial planting is required, silviculturally acceptable seedlings must first be available for planting at an economically fair price in Alaska." This program would meet that need as quoted from Alaska's Forest Resources and Practices Act.

The "State Forest Nursery" would become the "Alaska Regeneration Center". This name more correctly describes the facility resulting from this programs role in forest land management - a role that includes research, production, and training.

The following pages present the details of this program in tabular form to enable better understanding.

ANNUAL STATISTICS

Benefits accrued:

Seedlings produced = 1,600,000
State land treated = 2,085 acres (planted and seeded)
State land site prepared = 2478 acres
State land surveyed for regeneration = 3,150 acres
Seedlings available for non-state use = 817,200
Local residents trained at nursery = 6
Day labor - Days of employment generated = 1320
Amount of work contracted by State = $343,780.00
Reimbursement for seedlings (projected) = $122,580.00 ($0.15 per seedling)
Non-state lands reforested = 1,200 acres
Private sector employment enabled = 41 (at minimum)

Alaska Regeneration Center requires the following funding commitment by the Alaska Legislature:

STAFFING	MAN MONTHS	TOTAL COSTS
Agronomist III (Center Manager)	12	$63,000.00
Maintenance Worker II	12	$47,388.00
Forest Technician IV (Research/Tree Improvement)	12	$39,336.00
Forest Technician IV (Assistant Center Manager)	12	$39,336.00
Forest Technician III (Center Foreman)	12	$35,196.00
Clerk-Typist III (Center Clerk/Admin)	12	$31,800.00
Forest Technicians I/II (Center Technicians) 6 ea @ 9 mons.	54	$142,688.00
Forest Technicians I/II (Cooperator Trainees) 6 ea @ 3 mons.	18	$47,566.00
Day laborers (Spot help) 1320 man days @ 40.00 per day	61	$52,800
TOTAL	205	$499,110.00
	Personal services short funding	-$34,688.00
	Usable personal services funding	$464,422.00

SEASONAL POSITION DISTRIBUTION (Pos/Mths.)

Position	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Trainees		6/6	6/6	6/6								
Reg Seasonals		6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6		
Day Laborers				28/ 18		12/ 12		40/ 30		12/6		

BUDGET CATEGORY	TOTAL FUNDING REQUIRED	BREAKDOWN	DESCRIPTION
Travel	$10,000.00		Assess cone crops, gather propagation materials, audit/monitor seedling condition at field sites, assess progeny sites, monitor seed production areas, maintain professional currency.
Contractual Services	$161,000.00	Professional Services	$10,000.00 (Consultants Cones)
		Communications	$10,000.00 (Phones)
		Transportation	$25,000.00 (Shipping Seedlings)
		State Equipment Fleet	$15,000.00 (State vehicle charges)
		Printing	$1,000.00 (brochures handouts)
		Public Utilities	$60,000.00 (Electricity Gas)
		Minor Repair and Maintenance	$25,000.00 (buildings and

			equipment)
		Rental of machinery and equipment	$5,000.00 (Specialized equipment)
		Other expenditures	$10,000.00 (State Risk Management)
Supplies and Materials	$130,500.00	Office supplies	$2,000.00
		Agricultural supplies	$10,000.00 (Fertilizer and fungicides)
		Household and Institutional	$3,000.00 (Cleaning agents)
		Professional and Scientific	$93,000.00 (Grit, medium, and containers)
		Data processing supplies	$1,500.00 (Software and paper)
		Other operating supplies	$15,000.00 (Shipping boxes)
		Repair and Maintenance	$6,000.00 (Strapping, tray racks)

Equipment	$30,000.00		Phased replacement of worn equipment. Upgrading of outdated equipment over time. Acquisition of needed communications and technical equipment.
Capital Improvement Projects	$1,052,000.00	Water monitoring and delivery system improvements	$20,000.00
		Outdoor portable irrigation system	$15,000.00
		Complete fence around growing yard	$12,000.00
		Complete pole shed	$5,000.00
		Construct two greenhouses (completely equipped with power)	$800,000.00
		Construct fire warehouse for SCR to free up Headshed for use	$200,000.00

Regional offices require the following funding commitments to meet program targets:

NORTHERN REGION

Description	Man Months	Total Costs
Personal Services Forester 1 (Delta and Tok)	12	$46,670.00
Forester 1 (Fairbanks)	12	$46,000.00
Forest Technician III (Fairbanks) 2 @ 6 mons.	12	$35,458.00
Forest Technician III (Fairbanks) 1 @12 mons.	12	$35,458.00
Total Personal services	48	$163,586.00
Contracts for Field work		$345,900.00
Support for Region Staff		$18,265.00
TOTAL FOR NORTHERN REGION		$527,751.00

SOUTHCENTRAL REGION

Personal Services		
Forester 1 (Regional office)	12	$42,219.00
Total Personal Services	12	$42,219.00
Contracts for field work		$61,280.00
Support for Regional Staff		$2,765.00
TOTAL FOR SOUTHCENTRAL REGION	12	$106,264.00

SOUTHEAST REGION

Personal Services		
Forester 1 (Juneau)	12	$48,936.00
Total Personal Services	12	$48,936.00
Contracts for field work		$44,860.00
Support for Regional Staff		$2,835.00
TOTAL FOR SOUTHEAST REGION	12	$96,631.00
TOTAL STATEWIDE	72	$622,964.00

ANNUAL COST CALCULATIONS BY REGION

Northern Region

Activity	Acres	Breakdown	Costs
Planting	1008	Contract costs = 150.00 per acre	$151,200.00
		Contract prep and admin = 30.79 per acre	$31,036.00
		Support costs = 5.00 per acre	$5,040.00
		TOTAL PLANTING	$187,276.00
Scarification	1975	Contract costs = 80.00 per acre	$158,000.00
		Contract prep and admin = 30.79 per acre	$60,810.00
		Support costs = 5.00 per acre	$9,875.00
		T O T A L SCARIFICATION	$228,685.00

Direct Seeding	670	Contract costs = 30.00 per acre	$20,100.00
		Contract prep and admin = 30.79 per acre	$20,629.00
		Seed costs = 15.00 per acre	$10,050.00
		Support costs = 5.00 per acre	$3,350.00
		TOTAL DIRECT SEEDING	$54,129.00
Regeneration survey	1660	Contract costs = 10.00 per acre	$16,600.00
		Contract prep and admin costs = 30.79 per acre	$51,111.00
		T O T A L REGENERATION SURVEY	$67,711.00
TOTAL FOR N O R T H E R N REGION			$537,801.00

Southcentral Region

Activity	Acres	Breakdown	Costs
Planting	227	Contract costs = 150.00 per acre	$34,050.00
		Contract prep and admin costs = 44.77 per acre	$10,163.00
		Support costs = 5.00 per acre	$1,135.00
		TOTAL PLANTING	$45,348.00
Scarification	271	contract costs = 80.00 per acre	$21,680.00
		Contract prep and admin = 44.77 per acre	$12,133.00
		Support costs = 5.00 per acre	$1,355.00
		T O T A L SCARIFICATION	$35,168.00

Direct Seeding	55	Contract costs = 30.00 per acre	$1,650.00
		Contract prep and admin = 44.77 per acre	$2,463.00
		Support costs = 5.00 per acre	$275.00
		Seed costs = 15.00 per acre	$825.00
		TOTAL DIRECT SEEDING	$5,213.00
Regeneration surveys	390	Contract costs = 10.00 per acre	$3,900.00
		Contract prep and admin = 44.77 per acre	$17,460.00
		T O T A L REGENERATION SURVEYS	$21,360.00
TOTAL FOR SOUTHCENTRAL REGION			$107,089.00

Southeast Region

Activity	Acres	Breakdown	Costs
Planting	125	Contract costs = 150.00 per acre	$18,750.00
		Contract prep and admin = 33.59 per acre	$4,198.00
		Support costs = 5.00 per acre	$625.00
		TOTAL PLANTING	$23,573.00
Scarification	82	Contract costs = 80.00 per acre	$6,560.00
		Contract prep and admin = 33.59 per acre	$2,754.00
		Support costs = 5.00 per acre	$410.00
		T O T A L SCARIFICATION	$9,724.00

Prescribed Fire	150	Contract labor = 57.00 per acre	$8,550.00
		Contract prep and admin = 33.59 per acre	5,037.00
		Support costs = 12.00 per acre	$1,800.00
		T O T A L PRESCRIBED FIRE	$15,387.00
Regeneration surveys	1100	Contract costs = 10.00 per acre	$11,000.00
		Contract prep and admin = 33.59 per acre	$36,947.00
		T O T A L REGENERATION SURVEYS	$47,947.00
T O T A L SOUTHEAST REGION			$96,631.00
T O T A L STATEWIDE			$741,521.00

After the first five (5) years of this program funding could be reduced by $124,230.00 in services to be contracted for as the State completes rehabilitation of "backlogged" areas due to earlier harvest and fires. This would make an additional 230,000 seedlings available for use on other lands and increase nursery revenues by $34,500.00 at the same time.

The revenue from the sale of seedlings is based on a cost of $0.15 per seedling. This requires a change in the Department of Natural Resource's fee schedule which was adopted by regulation a few years ago.

Also worthy of note is the fact that the requirement to program a short funding of personal services costs would be devastating to this program - and likely many others as well.

OVERALL PROGRAM SUMMARY

BUDGET ITEM	F U N D I N G REQUIRED	F U N D I N G PROPOSED FY90	ADDITIONAL F U N D I N G REQUIRED
P e r s o n a l Services	$753,851.00	$96,500.00	$657,351.00
Travel	$10,000.00	$2,800.00	$7,200.00
Contractual	$636,905.00	$172,700	$464,205.00
Commodities	$141,375.00	$26,900.00	$114,475.00
Equipment	$30,000.00	$1,500.00	$28,500.00
TOTAL	**$1,572,131.00**	**$300,400.00**	**$1,271,731.00**
C a p i t a l Projects	$1,052,000.00	-0-	$1,052,000.00
GRAND TOTAL	**$2,624,131.00**	**$300,400.00**	**$2,323,731.00**

... DIRECTOR'S OFFICE
file - Forestry - general
reforestation

The Alaska Reforestation Council
Forest Tree Improvement Cooperative

3601 C Street, Suite 1008 Anchorage, Alaska 99503 (907) 762-2117

ANNOUNCEMENT

GENERAL BUSINESS MEETING OF
THE ALASKA REFORESTATION COUNCIL
JANUARY 25-26, 1990
TANANA CHIEFS BUILDING*
FAIRBANKS, ALASKA

THIS ANNOUNCEMENT IS A BIT LATE BUT IT, ALONG WITH A TELEPHONE ALERT, SHOULD ALLOW AMPLE TIME TO PREPARE FOR THE MEETING. AGAIN, I'VE GONE TO SOME DETAIL IN THE AGENDA. INCLUDED ARE COPIES OF MEMOS THAT ARE PERTINENT TO SPECIFIC ITEMS ON THE AGENDA THAT WILL GIVE YOU A BETTER PERSPECTIVE AND ENABLE YOU TO PARTICIPATE MORE EFFECTIVELY.

IN ADDITION, A MEETING IS BEING CALLED OF THE AD HOC ORGANIZATION COMMITTEE, AND ANYONE ELSE WHO WANTS TO ATTEND, ON WEDNESDAY EVENING, JANUARY 24, AT 1900 IN THE DNR OFFICE ON AIRPORT WAY. COME PREPARED TO PARTICIPATE IN LIVELY DISCUSSIONS PERTAINING TO THE COUNCIL'S MEMBERSHIP, BASE OF SUPPORT, MISSION, PROJECTS, ETC., AND THE ORGANIZATION THEREOF.

LOOKING FORWARD TO A CONSTRUCTIVE MEETING. HOPE YOU CAN MAKE IT.

Sincerely,

EARL P. STEPHENS PhD
Executive Director
Alaska Reforestation Council Forest
Tree Improvement Cooperative

* 122 1ST STREET, BOARD ROOM, 6TH FLOOR

STATE OF ALASKA
DEPT. OF NATURAL RESOURCES
JAN 18 1990
DIVISION OF FORESTRY
CENTRAL OFFICE

AGENDA

GENERAL BUSINESS MEETING OF
THE ALASKA REFORESTATION COUNCIL
JANUARY 25-26, 1990
TANANA CHIEFS BUILDING
122 1ST STREET, BOARD ROOM, 6TH FLOOR
FAIRBANKS, ALASKA

THURSDAY, JANUARY 25, 1990

0900-0915 Welcome - Chris Maisch
Announcements, Introductions, etc. - Drew/Alden/Stephens

0915-1945 ARC Chairman's Report:
Objectives of Meeting, Background, etc. - Drew

0945-1115 Eagle River Nursery:
Options for Nursery's Future - Dick/Beebe

Nursery Committee Report - Stehlik

Pt. McKenzie Tract - Beebe

Seedling Pricing Structure - Beebe

Survey of Seedling Needs:
Species, Wood Characteristics - Beebe

1115-1200 Ad Hoc Committee Report on Organization of ARC:
Mission, Policies, Job Descriptions, Representation, Dues, By-Laws, etc. - Stephens/Drew/Alden/Wood et al.

1200-1330 LUNCH

1330-1430 Executive Committee Reports:
General - Drew

Article for Agroborealis - Drew

THURSDAY, JANUARY 25, 1990 (CON'T)

Seed Zone Maps:
Cover Letter - Drew/Alden

Guidelines - Alden

Distribution:
MOU Among Agencies - Beebe/Dick

News Article Release of Seed Zone Maps - Clifford

Fund Requirements - Alden

Pass Thru Funds - Beebe/Dick/Wheeler

Finance Report - Stephens

Industrial Development - Karl/Ricketts/Maisch/Others

Public Relations:
Reforestation Fund, Legislative Session - Karl/Dick/Drew

1430-1445 Advisory Committee Reports:
General - Stephens (Eggleston Retired)

1445-1515 Technical Committee Reports:
General - Beebe

ReTree International Proposal:
Conversion of Idle Land to Forests
Alden - Wood

1515-1600 Silviculture Committee Reports:
General - Lessard

Quartz Creek Demonstration Area - Lessard

THURSDAY, JANUARY 25, 1990 (CON'T)

1600-1700 Tech Transfer Committee Report:
Conflict of interest Conference - LaBau/Cole

Video Development: Seedling Care and Planting:
Kesti/Packee/Gasbarro/Wheeler

FRIDAY, JANUARY 26, 1990

0800-0900 Tree Improvement Committee Reports:
General - Beebe

Tok White Spruce SPA:
Soil Tests - Ward

Tissue Analyses - Packee

Mgt. Plan - Alden/Stephens

Mat-Su SPA Sites - Beebe

TIP - Blanton/Packee

Handbook for Plus Tree Selection - Blanton/Packee

Supplemental Funding for Blanton - Drew/Packee

Communications:
Blanton & ARC - Alden/Packee

0900-0930 Arboretum Committee Reports:
General - Wright

0930-1000 Grants and Research:
Alden/Ricketts

1000-1045 New Business

IUFRO XIX World Congress, 1990. Packee/Alden

Society of American Foresters National Convention of 1994 - LaBau/Alden

Statistical Support:
Exp't. Design and Analysis - Packee

Role of Fertilizers in White Spruce Seed Production: literature survey and interpretation - Packee

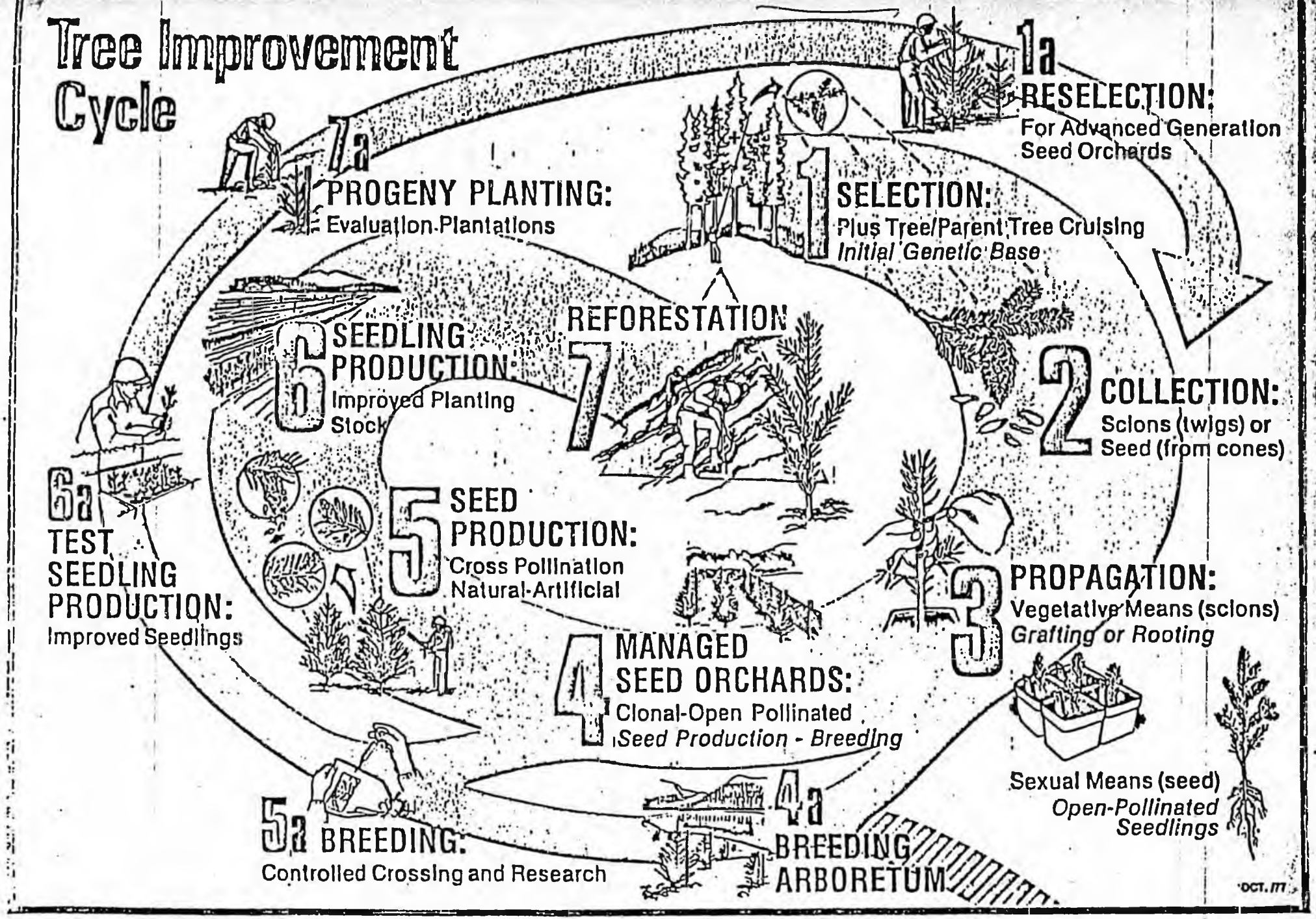
Nordic Contacts: Max Hagmann Exchange - Packee/Others/Alden

1045-1115 Other

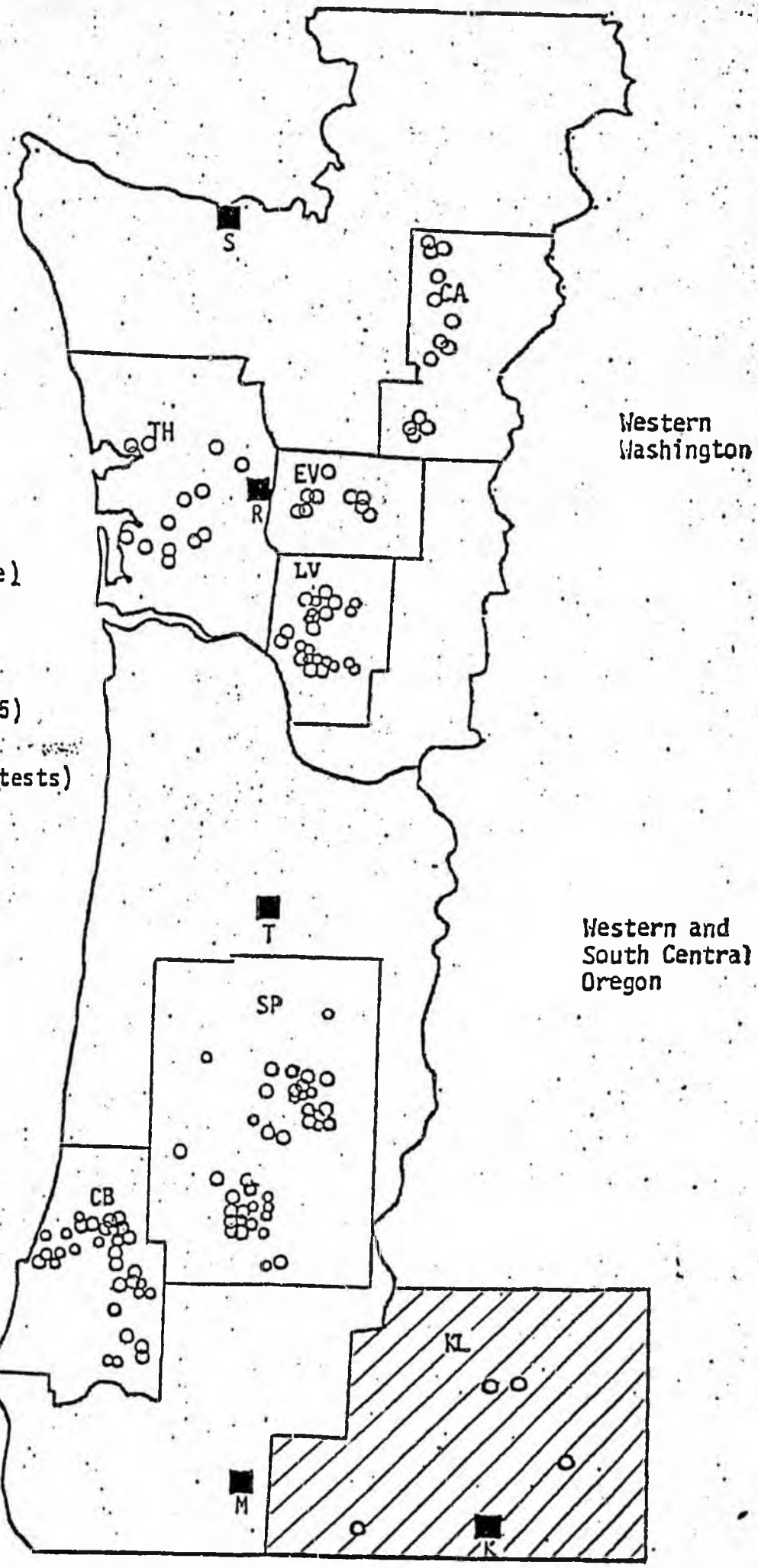
1115-1130 Next Meeting

1130-1200 Unfinished Business

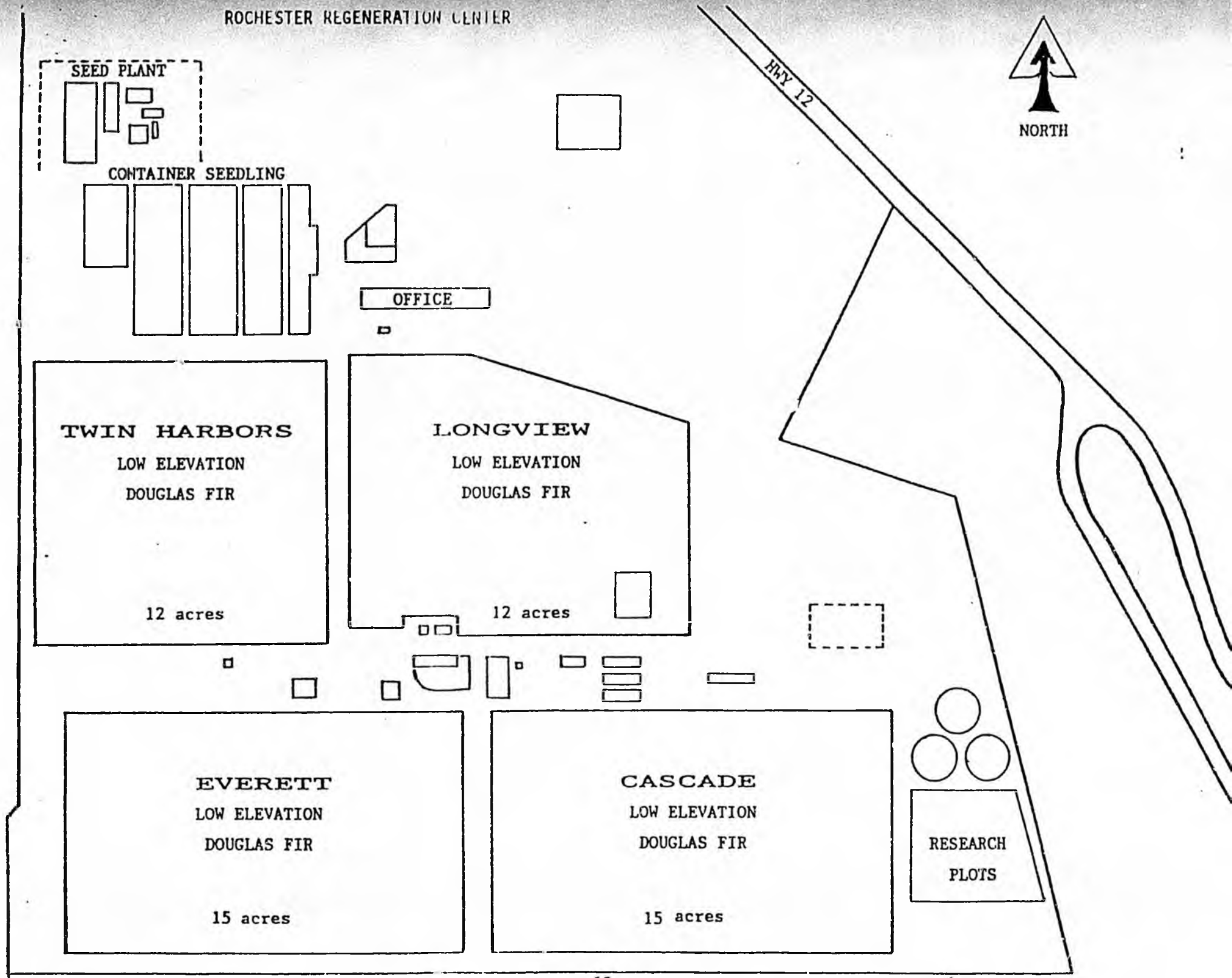
Tree Improvement Cycle



III. C. GEOGRAPHIC RESPONSIBILITIES*



Revised: Feb. 25, 1986

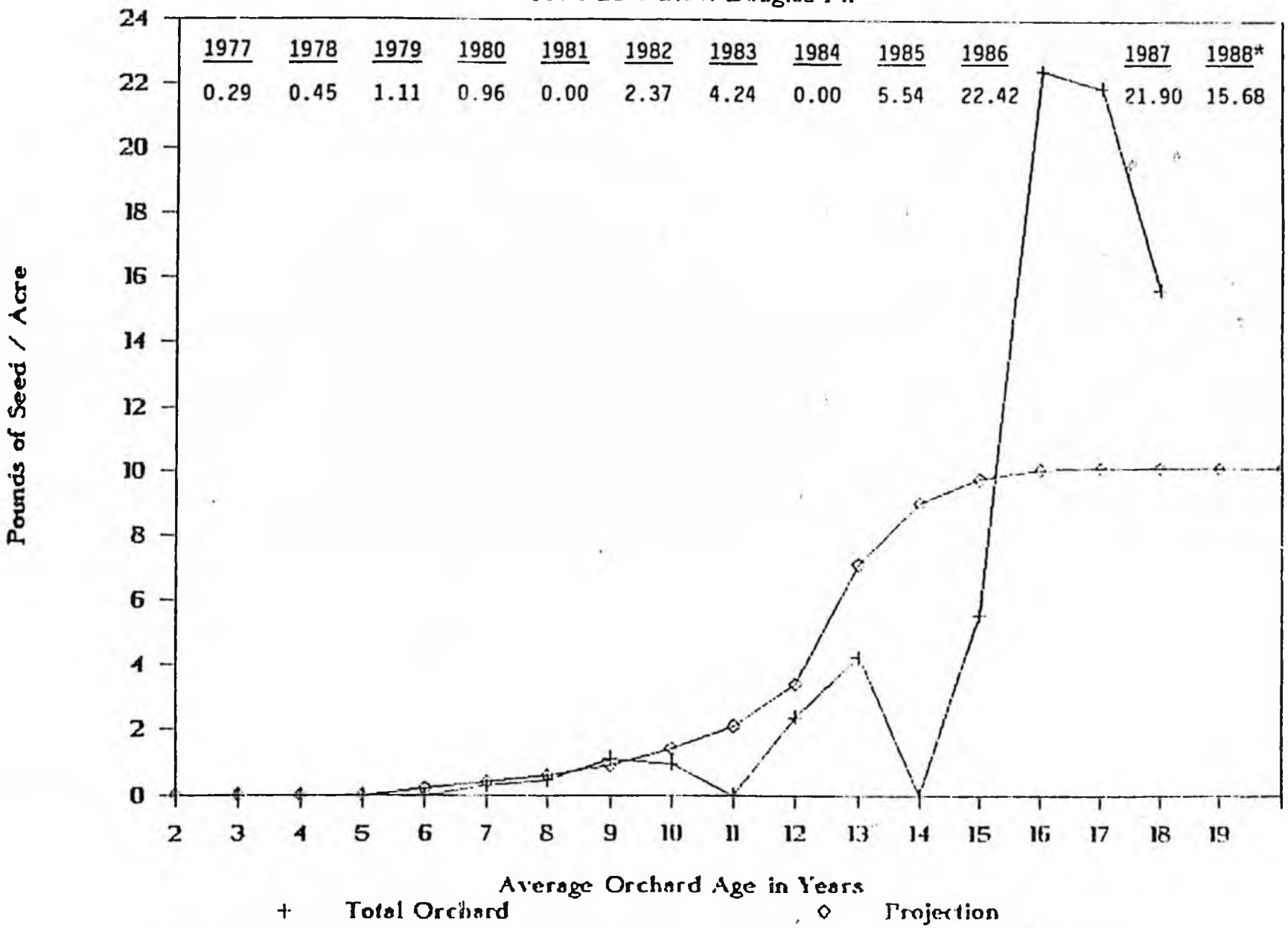

ROCHESTER REGENERATION CENTER
SEED PLANT
CONTAINER SEEDLING
OFFICE
HWY 12
NORTH
TWIN HARBORS
LOW ELEVATION
DOUGLAS FIR
12 acres
LONGVIEW
LOW ELEVATION
DOUGLAS FIR
12 acres
EVERETT
LOW ELEVATION
DOUGLAS FIR
15 acres
CASCADE
LOW ELEVATION
DOUGLAS FIR
15 acres
RESEARCH
PLOTS

1989 OPERATING PLAN/ROCHESTER SEED ORCHARD

ORCHARD DESCRIPTION

PROGRAM			CLONES ORIG/CURR	ASSIGNED POSITIONS	OCCUPIED POSTIONS	ACRES	SPACING RXC	ESTABLISHMENT DATES	AVE AGE
REGION	ELEV	SPECIES							
CASCADE	LOW	DOUG FIR	120/73	2400	765	15.0	10 x 24	1969-1975	17
EVERETT	LOW	DOUG FIR	120/76	2400	759	15.0	10 x 24	1969-1975	17
LONGVIEW	LOW	DOUG FIR	106/69	2150	616	12.0	10 x 24	1969-1975	18
TWIN HARBORS	LOW	DOUG FIR	102/81	2200	789	12.0	10 x 24	1968-1975	17
TOTALS			448/299	9150	2929	54.0			

Rochester Seed Orchard



* Estimated using .33 pounds per bushel

* Reduction in Yield/Acre is a Result of Selectively Harvesting by Genetic Rank

ROCHESTER SEED ORCHARD
PRODUCTION REVIEW
6 DECEMBER 1988

SEED PRODUCTION

YEAR	AGE	BUSHELS	TOTAL #SEED	#/BUSHEL	#/ACRE	PLANTABLE SEEDLINGS
1977	7	87	15	.17	.29	270,000
1978	8	125	23	.18	.45	414,000
1979	9	201	57	.28	1.11	1,026,000
1980	10	242	49	.20	.96	882,000
1981	11	0				
1982	12	246	121	.49	2.37	2,178,000
1983	13	728	216	.30	4.24	3,888,000
1984	14	0				
1985	15	932	294	.32	5.54	5,292,000
1986	16	2928	1255	.43	22.4	22,590,000
1987	17	3000	1182	.39	22.3	21,276,000
1988*	18	2420	850	.35	15.7	15,300,000
TOTAL		10,909	4,062			73,000,000

850 cones/bushel
30 filled seed/cone
.30-.40 pounds/bushel
36,000 seed/pound

ORCHARD CULTURAL ACTIVITIES

PROTECTION and MAINTENANCE

- .Mowing
- .Herbicide
- .Fertilizing
- .Fungicide
- .Irrigation
- .Tree Removal
  - Mortality
  - Silvicultural
  - Roguing
- .Limb Removal
- .Transplanting
- .Graft Union Scribing

DATA COLLECTION

- .Orchard Masterfile
- .Cone Production
- .Clonal Seed Production/Quality
- .Phenology
- .Cone Efficiency
- .Seed Efficiency
- .Weather

SEED PRODUCTION

- .Flower Stimulation
  - Girdling/$CANO_3$
  - G.A. 4/7
- .Frost Protection
- .Bloom Delay
- .Pollen Boosting
- .Supplemental Mass Pollination
- .Insect Control
- .Harvest