

# DIVISION OF FORESTRY

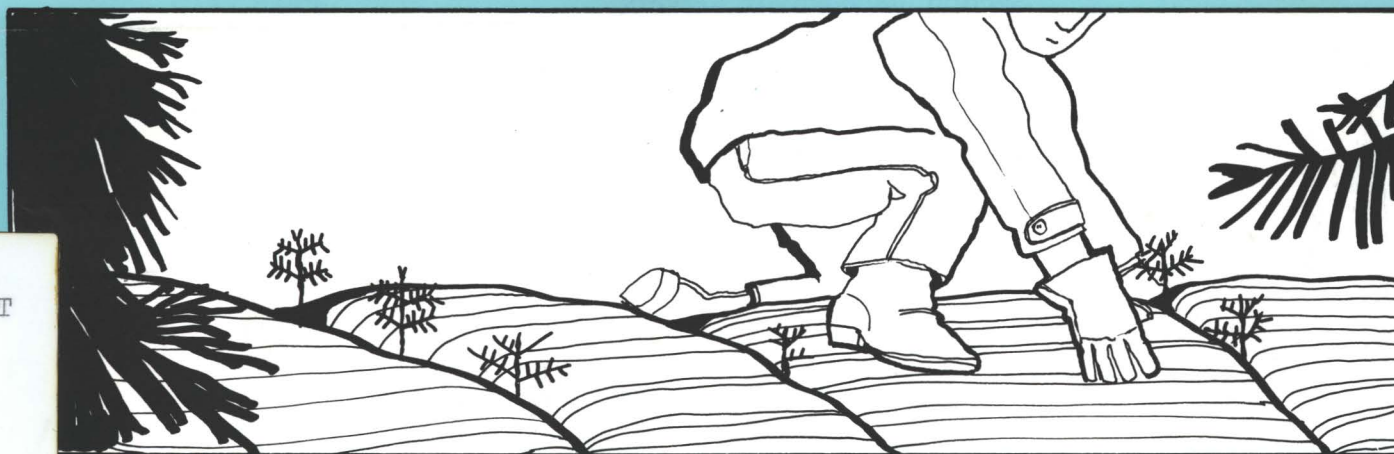
## Alaska Department of Natural Resources



*Resource Management*



*Fire Control*



*Forest Assistance*

ALASKA  
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1983

# 1983 ANNUAL REPORT

 Alaska Department of  
**NATURAL  
RESOURCES**

## **PAST AND PRESENT STATE FORESTERS**

Earl Plaurde . . . . . October 1959 to June 1968  
William Sacheck . . . . . July 1968 to June 1974  
George Hollett . . . . . July 1974 to June 1976  
Theodore Smith . . . . . July 1976 to April 1982  
John Sturgeon . . . . . May 1982 to Date

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1983



### **RUSSELL J. BAGLEY**

Our fellow forester, Russell Bagley, who had dedicated a lifetime career to fire service in Alaska, died on February 28, 1984 of a heart attack.

Russ was a "Fireman's Fireman." He served with several police and fire departments prior to becoming Chief of the Greater Anchorage Borough Fire Department from 1972 to 1976.

His vast background and knowledge of firefighting, organization and training served as a cornerstone in developing the Division of Forestry's fire management program as it stands today.

Russ was well-known throughout Alaska by people in every fire department, and he was appreciated for his sense of humor and friendly smile almost as much as for his extensive knowledge of firefighting. His presence and active participation will be deeply missed by the Division of Forestry, of which he was such a respected team member.

*by Elmer Hurd*

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**ARLIS**

Alaska Resources  
Library & Information Services  
Anchorage, Alaska



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*"The future for forestry in Alaska is very encouraging and presents many challenges to us all."*

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The 1983 Division of Forestry Annual Report is a summary of our accomplishments for this past year as well as a look at our objectives for the year 1984. I think it is very important for employees to take the time to review this annual report and to reflect on what the Division as a whole has accomplished. Very often, we contribute only a part to a larger project; therefore, our individual contributions are often much less definitive. This is comparable to any team made up of many players. The feeling of accomplishment comes not only from our individual efforts, but that of the Division as a whole.

The highlight for the Division of Forestry for 1983 has to be the establishment of the 1.7 million acre Tanana Valley State Forest. This multiple-use area will assure a sustained yield of timber on which a forest industry can be built. In addition, since the forest will remain in public ownership, other uses such as recreation, hunting, fishing, and mining will continue to benefit all Alaskans in perpetuity.

The summer of 1983 also clearly demonstrated the results of our fire planning efforts. An excellent example was the contrast between the amounts spent for suppressing two separate fires in the Fairbanks area. The Rosie Creek fire, 5 miles west of Fairbanks, was in a critical area and took \$3.5 million to suppress. Concurrently, the Munson Creek fire was burning east of Fairbanks, in which the majority of the area was classified as 'limited' or 'let burn.' This fire was monitored very closely with very few resources devoted to it. Since the fire was basically allowed to burn freely, it was estimated that the State saved over \$1 million in suppression costs.

The future for forestry in Alaska is very encouraging and presents many challenges to us all. We are the envy of many other forestry organizations nationwide which have very static organizations. We are at a place that most other forestry organizations reached years ago, and we are still growing rapidly. We can all learn from both their successes and failures; the choice is ours. The forestry land base and programs that we establish the next few years will be the legacy we leave to the future generations of Alaskans that follow us. Let's not fail them!

*John Sturgeon*  
State Forester



## 1983 – A Year of Challenge and Achievements

### 1. Kenai National Wildlife Protection

The Division assumed protection of the Kenai National Wildlife Refuge on April 3, 1983, thus completing the trade of protection responsibility with the Bureau of Land Management south of the Alaska Range. This added 1.5 million acres to our protection responsibility.

### 2. New McGrath Area

The budget increase request for preliminary preparation in McGrath was approved. The three positions will be filled in time to meet the workload requirement for the 1984 fire season and place the Division in position to assume protection in McGrath in 1985, providing approval of the FY85 budget is obtained.

### 3. New Agreements

A total of eight new agreements was signed during 1983. The more significant ones were the Ft. Greeley Retardant Site with the Army and the Aircraft Operations Agreement with the Office of Aircraft Services, USDI.

### 4. Central Logistics Formed

The Division established a central logistical support office which expedites coordination of resources between districts and other agencies. It provides a central collection point for status of suppression and preparedness situations statewide.

### 5. Comprehensive Communications Planning

Communications planning on a statewide inter-agency basis concluded in a comprehensive plan that maximizes capability with minimum investment. Agreements with Federal agencies allows mutual use of both UHF and VHF and provides cost-effective radio coverage in all protection areas, expands the scene-of-action capability, and allows communication interface with the field fire forces of DOF and the Alaska Fire Service. Expanded communication capability includes the Tok/Nenana and McGrath areas.

### 6. Fire Investigations Pursued

The Division increased efforts of fire investigation, criminal prosecution and suppression cost recovery. Judgment in two cases was found in the State's favor for criminal negligence in the use of fire. Two additional cases are to be tried in January 1984.

### 7. Agricultural Burning

Burning of cleared brush and timber in the Pt. MacKenzie agriculture project progressed within the contract stipulations for burning. Approximately 1000 acres of debris were burned in 1983, resulting in only 5.8 acres of escaped wildfire.

### 8. Dedication of Land to Forestry

The highlight of the year was the establishment of the Tanana Valley State Forest. Legislation was passed that not only dedicated 1.7 million acres to the Tanana Valley State Forest, but also expanded the established system of State forest acres by nine times, providing protection to 1.9 million acres statewide to be managed under the principles of multiple use and sustained yield.

### 9. Record Revenue Producing Timber Sale

While selling 49 million boardfeet of coastal spruce and hemlock located at Icy Bay at public auction, the Division secured a record high bid of 5.9 million dollars.



Alaska Wildfire

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*The highlight of the year was the establishment of the Tanana Valley State Forest.*

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## 10. Forest Inventory

Inventory of forest resources by the Division of Geologic and Geophysical Services in cooperation with the Division of Forestry included field work at the Delta West Agricultural Project, Yakataga, Haines, and the Kantishna and Susitna Corridor areas of the Susitna Valley. The USDA Soil Conservation Service assisted the Division in the Haines and Delta West inventory projects.

The Delta West inventory project was completed during the year, while the remaining projects will continue into 1984. The DGGGS is also conducting an integrated inventory of the Copper River region, a part of which will provide forest resource information.

### Inventory

Name	Year	Number of Acres	Estimated Commercial Forest Acres
Yakataga	1983	460,000	137,000
Haines	1983	229,000	90,000
Tanana Valley	1984	1,700,000	950,000
Delta West	1983	195,000	65,000

Training was conducted for field personnel and private contractors working on State inventory projects. The Division of Forestry inventory field manual was completed and became part of the inventory contracts as the direction in data collection procedure.

## 11. First Christmas Tree Farm in Interior Alaska

The Division of Forestry, Northcentral District has begun a "Forest Management Plan" for Mr. Don Kratzer of Nenana, Alaska. Don currently owns 161 acres of land. He has cleared 100 acres, 50 acres of which is dedicated to Christmas tree production and 50 to grasses for feed stock. The remaining acres will be put into a woodlot for production of fuelwood and other forest products.

Don's will be the first certified Christmas tree farm in interior Alaska and indicates the diversification of northern forests.

## 12. Construction of Eagle River Forest Nursery

During the first phase of the new forest nursery, two greenhouses were constructed this past year. Esther Wunnicke, Commissioner of Natural Resources, dedicated the building on April 29, 1983.



*State Forest Nursery*

## Division Operating Budget

### FUNDING SOURCES:

	FY82	FY83
General Funds	\$5,000,800	\$6,382,558
Federal Funds	<u>553,500</u>	<u>526,800</u>
TOTAL	\$5,554,300	\$6,909,358

### PROGRAM EXPENDITURES:

#### Timber Inventory/Sales Component:

Icy Bay Timber Sales	\$ 128,800	\$ 151,500
Timber Sale Preparation (Including Beachlog Salvage, Log Brands & Reforestation)	220,300	223,500
Small Timber Sales	563,500	694,100
Haines Timber Sale	289,600	264,800
Fairbanks Firewood Access		270,000
Westside Sale #1		5,000
CFA — Willow	24,500	
RRE	52,500	
Tongass Harvest	26,000	
Tongass Yield	48,500	
Tyonek Sale	<u>127,100</u>	
TOTAL	\$1,480,800	\$1,608,900

#### Forest Research Component:

State Forest Nursery	\$ 116,300	\$ 137,200
Forest Practices	415,600	438,200
Urban & Community Forestry		36,800
RFA — Seed Purchase	20,000	
Board of Forestry	<u>12,900</u>	
TOTAL	\$ 564,800	\$ 657,200

#### Fire Protection/Suppression Component:

Presuppression/Alaska	\$2,975,200	\$3,885,458
Rural Community Fire Protection	64,000	65,000
CFA	<u>17,500</u>	
TOTAL	\$3,056,700	\$3,950,458

#### FLWM Administration Component:

Forestry Administration	\$ 452,000	\$ 692,800
TOTAL	\$ 452,000	\$ 692,800

## Resource Management Programs

### RESOURCE FACTS

<b>Classified Forest Land Base</b> .....	<b>Acres</b>
Forest .....	3,422,083
Water Resources .....	127,555
Resource Management .....	8,161,244
Wildlife Habitat .....	1,327,995
Wildlife Habitat/Water Resources .....	48,348
Forest/Wildlife Habitat .....	56,638
Public Recreation .....	1,358,421

### STATE FOREST SYSTEM

Haines .....	229,000
Tanana .....	1,700,000

### FIRE MANAGEMENT

	<b>FY82</b>	<b>CY83</b>
Acres of State Responsibility .....	60,000,000	78,000,000
Acres w/in State Protection Area .....	56,000,000	58,000,000
Fire Incidents .....	375	397
Acres Burned .....	1,295	32,276
Burn Permits Issued .....	18,000	2,625
Conclusive Investigations .....	N/A	7
Hours Flown in Aircraft .....	1,200	2,301
Training Hours .....	743	891

### RESOURCE MANAGEMENT

#### Icy Bay Timber Sales

Inspections .....	20	16
Acres Laid Out .....	698	Complete
Miles of Road Laid Out or Restaked .....	12.8	8.1
Acres of Regeneration Surveyed .....	420	260
Reappraisals .....	1	0
Auctions .....	0	1

#### Timber Sale Preparation

Statewide Plan Element .....	1	1
Area Plans .....	3	4
Susitna Basin Study .....	N/A	100%
Training Courses Completed .....		5
Handbook Chapters Revised .....		1
Inventory Initiated .....	0	2
Log Salvage Licenses .....	28	40
Log Brands Administered .....	360	451
Acres Planted .....	190	31
Sacks of Cones Collected .....	292	1,527

#### Small Timber Sales

Cords of Wood for Sale .....	31,309	38,889
Sale Volume of Houselogs/MBF .....	145.5	137.7
Sale Volume of Saw Logs/MMBF .....	12.70	18.01

#### Haines Timber Sale

Inspections .....	49	2
Acres Laid Out .....	372	713
Miles of Road Laid Out .....	12.8	11.0

#### Access Road Development

Miles of Road Constructed .....	N/A	7.5
Miles of Road Maintained .....		29.0

### FORESTRY ASSISTANCE

#### State Forest Nursery

Seedlings Produced .....	401,400	185,000
Hardwood Cuttings Produced .....	5,400	300
Seedlings for Research .....	3,000	89,270
Kilograms of Seed Processed .....	168.3	7

#### Forest Practices

Inspections .....	120	139
Training Sessions .....	5	4





# Section Management Reports

## Fire Management

The Fire Management function of our Division continues to carry the expanding work of wildfire suppression. An increase of 1.6 million dollars and 9 PFT personnel has provided the resource to effectively protect the Kenai National Moose Range.

### I. Key Objectives of 1983

- A. Assume protection of the Kenai Moose Range realizing acre trade off with BLM for interim State land protection.
- B. Organize a core planning and management group for preparation of the McGrath/Bristol Bay area scheduled to come under State protection in 1985, per agreement with BLM.
- C. Complete work on four fire management plan areas.
- D. Develop cooperative agreements with local fire departments, where possible, to reduce the Division's need for a larger work force in initial attack.
- E. Complete a communications plan which identifies the most cost-effective design of total communication needs.
- F. Complete the Division's Policy and Procedure Manual.
- G. Continue to present quality, high-intensity training sessions to maximize benefits.
- H. Work directly with land developers to reduce the threat of escaped fires and yet arrange the best possible burning plan to benefit the developers on a site-specific basis.
- I. Overall, design the optimum fire protection program with the most cost-efficient means.
- J. Continue to increase the efficiency of our initial attack operations and dispatching and logistical functions.

### II. Predominant Problems

The first fire problem occurred in mid-April on the south end of the Kenai Peninsula due to dry weather. By early May, fire activity increased statewide, particularly from escaped debris fires at Point MacKenzie. The end of May saw both human-caused and lightning fires in the Fairbanks district with the Rosie Creek fire escaping initial attack and burning some 8,600 acres of private and State timber lands. Because of dry conditions, a fire closure issued on June 1st was lifted until June 6th, after light general rains.

### III. Achievements

#### A. Fire Containments

- The early Kenai fires were held to small acreage through cooperation with local fire departments.
- The Newby Road fire responded to initial attack at North Pole and was contained at 12.5 acres.
- Six lightning fires in Fairbanks on May 31 were held to less than two acres.
- A cost savings of approximately 1.2 million dollars was made by implementation of fire management plan, limited protection on the Munson Creek fire, the largest of the season in a low resource-value area.

**B. Interagency Cooperation**—The past season increased cooperation for improvement of communication systems and exchange of representatives on fires by the State's Division of Forestry and the Alaska Fire Service. A central logistics office established in Anchorage provided a communications link and more efficient statewide fire coordination internally.

**C. Division Fire Evaluations**—Post-season reviews by a fire team of all field areas has identified several individual needs, for which corrective action has been recommended and initiated.

**D. Fire Investigations**—This season saw extensive and aggressive investigation of human-caused fires. The investigations assisted by the State Fire Marshalls and the District Attorney's office resulted in identification and prosecution of persons causing the Rosie Creek and Funny River Road fires. We trust that this, along with other aggressive investigations, will act as a deterrent to man-caused fires.

**E. Fire Training**—The completion of the 1983 fire training program achieved 96% of the course hours identified three years ago for a complete 5-year training plan. This intensive effort makes it possible for the Division to rely much more on personnel within the Department of Natural Resources and less on other agency support during a normal fire season. Statistics on training are in the appendix.

## F. Aviation Program

Administrative improvements were the primary objective of the aviation management staff during 1983. Completion of the aviation management section of the DOF Policy and Procedure Manual, interagency services agreements with Department of Interior Alaska Fire Service and Office of Aircraft Services, the first of a three-year amphibious airtanker contract, and the first season of fully operational air attack bases in Anchorage and Fairbanks highlighted this year's accomplishment.

Configuration of the aircraft fleet was expanded by including contractual services of four light turbine helicopters and two airtankers, as well as operation of four-fixed wing aircraft acquired from U.S. Forest Service's excess property program.

Safety received continuous attention. Personnel protection was emphasized by the purchase of additional aviator helmets, fire resistant flight suits, extinguishers, crash rescue and medivac equipment for helitack bases. Improvement in interagency standards increased our compatibility as well as overall safety on the fireline.

In retrospect, a safe, productive season was experienced, which is the best of tests for a relatively new aspect in DOF fire management responsibility. We are confident that knowledge gained in '83 is providing an improved management base for future seasons.

## G. Rural Community Fire Protection Program—

\$63,000 of Federal monies was distributed to seventeen rural fire departments.

Moose Creek VFD	\$5000.00
Minto Village Council	2500.00
Cantwell VFD	2182.00
Big Lake VFD	3750.00
Lakes VFD	2345.00
North Star VFD	5000.00
Fishhook VFD	3775.00
University FSA	2350.00
Bear Creek VFD	4926.00
Wasilla VFD	4359.00
Homer VFD	4975.00
Ridgeway FD	2401.00
Unalaska VFD	2500.00
South End VFD	5000.00
Soldotna VFD	4900.00
Chena Goldstream	2570.00
Seward VFD	4467.00
<b>TOTAL</b>	<b>\$63000.00</b>



*Airborne Coordination*

## H. Interagency Fire Management Planning

Protection classification under the Interagency Fire Management planning concept was achieved on 4 planning areas and implemented during the 1983 fire season.

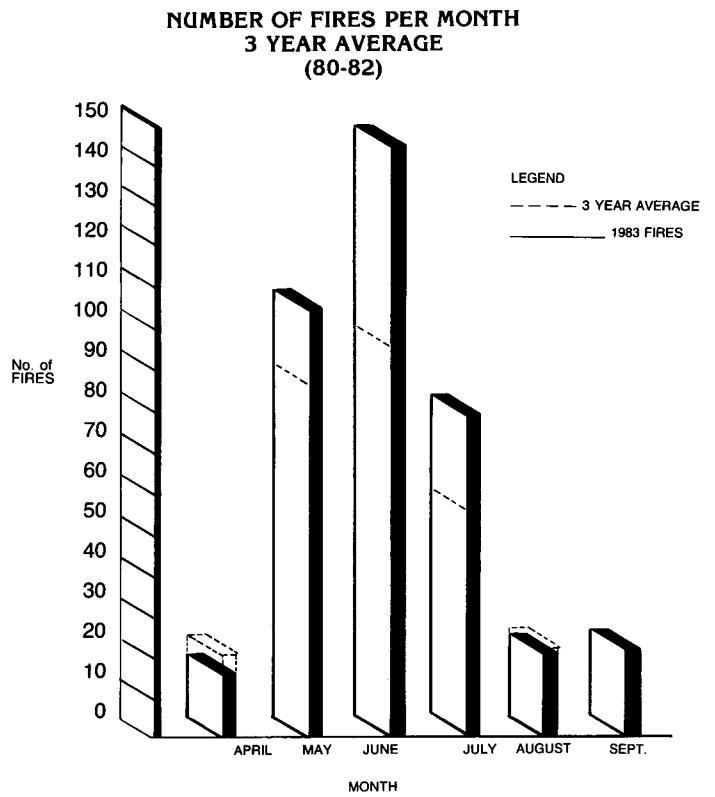
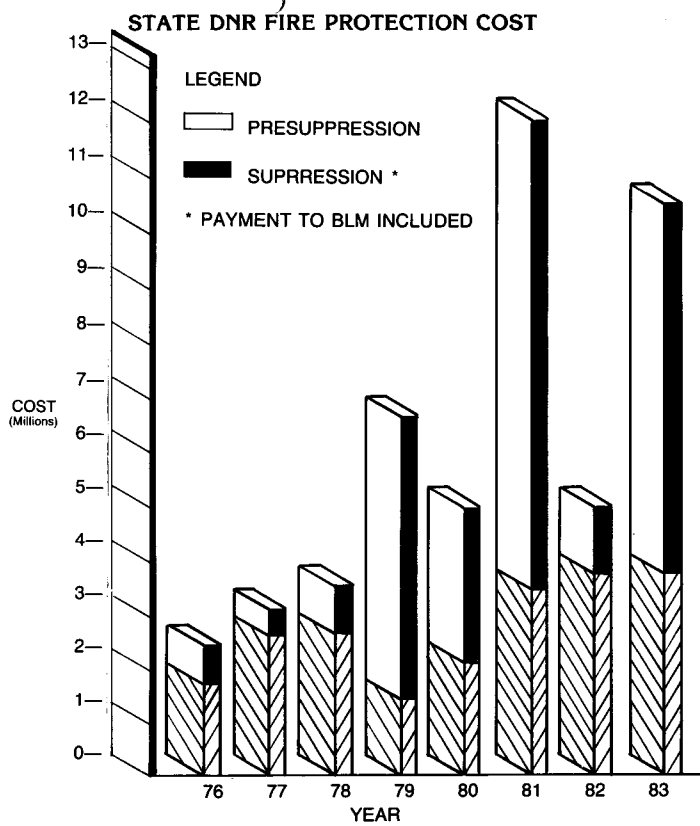
To date, approximately 154 million acres of State, Federal, and private lands have been reviewed under the Interagency Planning concept with the following results:

Critical	(site specific, not tabulated)
Full protection	38.1 million acres
Modified action	33.6 million acres
Limited action	82.6 million acres
<b>Total</b>	<b>154.3 million acres</b>

Approximately 50% of current State ownership that is considered fire prone has received protection analysis. The remaining ownership is scheduled to be reviewed by field season 1984.

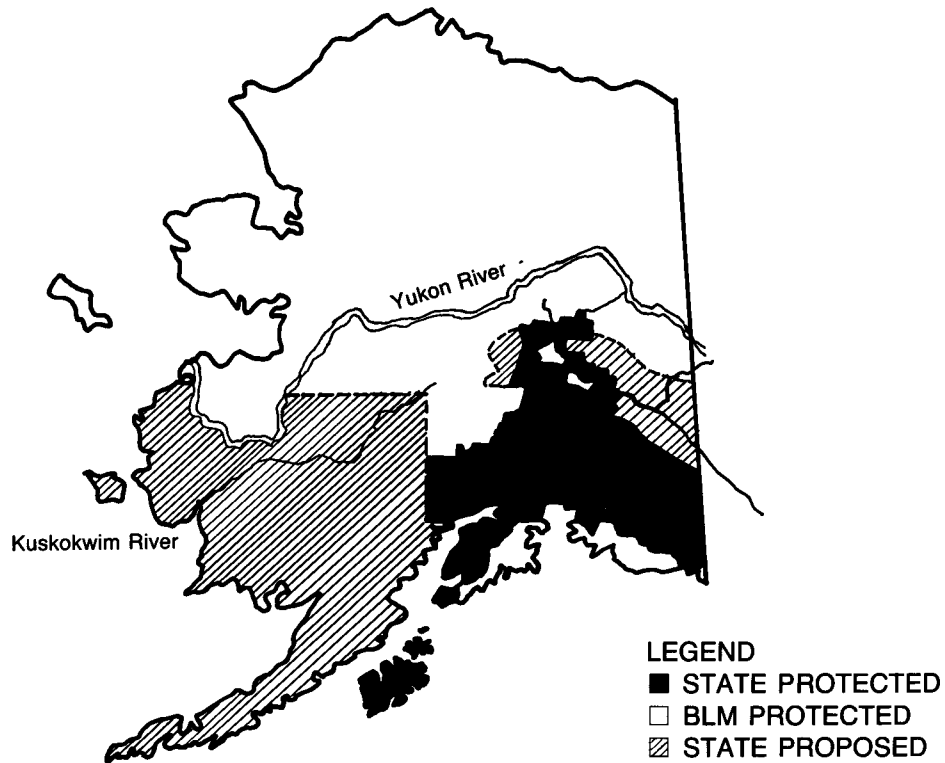
While not all of the State's fire prone region has undergone the analysis, the resulting benefits have started to prove themselves.

1. Reduction in suppression costs.
  - Twenty-six fires were allowed to burn without suppression action.
  - An estimated \$1.2 million suppression cost savings was attributed to a single fire that received minimum attention.
2. Suppression organizations are better able to prioritize the attack force commitment during multiple occurrence periods.
3. Available suppression forces are targeted for the most important areas.
4. Resource management objectives benefit where wildfire is desirable as in the case of habitat manipulation.
5. Consensus on the suppression action that is necessary for various parcels of land is attained between land managers prior to the event.



1/84

### 1983 STATE FIRE PROTECTION AREA



/84

E. **Forest Resource Planning.** Proper planning is an important necessity, and results in worthwhile products. The final draft of the State's first Forest Resources Program Plan will be available in 1983, while the Division will coordinate its input into the Department's update of the Statewide Natural Resources Plan, which should provide direction to area and forest management plan development statewide.

## II. Problems

Currently the Division of Forestry has been successful in having 1.9 million acres set aside within a system of State forests to be managed under the principles of multiple use and sustained yield. The projected demand for forest products indicates that this is approximately  $\frac{1}{3}$  of the acres necessary. The diminishing supply of commercial forest land through the allocation process, which continues to fragment our state land base, remains our highest immediate concern. Adequate acreages of state land dedicated to multiple-use management at the right locations with a high level of continuity from region to region statewide has not been achieved and must be addressed immediately.

Industrial and personal-use demands are continuing to increase while the resources available to meet these demands are not increasing proportionally due to either scarcity of dollars or inaccessibility of products. Alaska's expanding population is not truly aware of the services provided by the Division's Resource Management Section or the commitment necessary to develop the forest resources to provide it with the services and products it demands. In order to educate our citizens, promote forestry, and develop and maintain our forest products industry, our **image** must be enhanced by a public relations plan and campaign carried out by the Division and the Department of Natural Resources.

## III. ACHIEVEMENTS

### Policy and Procedure Manuals

1983 was a busy year for the policy and procedure manual writers. Drafts have been completed for seven sections of the timber management manual. These sections pertain to the planning, preparation, sale, and administration of competitive and negotiated timber sales and beach log salvage licenses. All draft copies have been reviewed and district comments incorporated into what will become the final draft. Final copies should be ready for distribution early in 1984.

### Forest Products

During 1983, approximately \$400,000 was generated from the harvest of some 35 million board feet of timber products from State forest land, which included 40,000 cords of fuelwood and 135,000 lineal feet of house logs, an increase in volume of more than 10%. This program entailed

the administration of approximately 80 commercial timber sales, 3900 personal-use sales, and 20 beach log salvage licenses. In addition, the Division sold 49.2 million board feet of Sitka spruce and western hemlock sawtimber in the Icy Bay area, which brought a record high bid of \$5,934,695.

### Rosie Creek Fire — June 1983

The fire left some 2300 acres in need of reforestation and legislative assistance provided \$205,000 for the reforestation and research efforts. The Division of Forestry advertised in Fairbanks for the collection of spruce cones to reforest the devastating Rosie Creek fire.

The response from the public was overwhelming, with one person from Fairbanks alone earning \$5,000.00 by collecting 200 bushels of cones. The Division paid \$25.00 per bushel and collected 1,700 bushels, some coming from as far away as Healy, Cantwell, and Delta.

Over \$50,000 was spent on the project, a small cost when considering that if one pound of seed is derived from a bushel, then over 1,700 pounds of seed will equate to over 300 million potential seedlings.

A research and operations schedule has been developed for salvage logging and reforesting 400 acres annually by the Northcentral District from 1984 through 1988.

### Construction of Forest Access Roads

In order to continue to meet the growing demand for fuelwood in the immediate area of Fairbanks, the Division has been appropriated \$238,000 by the legislature for construction and maintenance of 15 miles of pioneer road, which will provide the public with some 15,000 XXX of fuelwood over five years. During 1983, the Northcentral District constructed and upgraded approximately  $7\frac{1}{2}$  miles of access roads in order that local residents would have access to firewood cutting areas. These roads provide year-round access to firewood cutting areas in order that local residents may obtain fuelwood for their own personal use at a nominal fee.

At the same time, the Big Lake area office has coordinated with the Habitat Division of ADF&G to secure funds to construct pioneer roads within the Mat-Su Valley Moose Range, providing access to firewood adjacent to Anchorage.

### Resource Management Planning

Multiple-use management plans are being developed for the Haines and Tanana Valley State Forests, the first to be completed by July 1, 1984 and the later by mid-1986. A planning position has

In general, the Alaska suppression program is changing its posture commensurate with land management requirements and economic constraints. Innovation and departure from traditional suppression methods is a clear objective necessary to achieve a cost-effective and balanced program. The sensitive Alaska environment and remoteness often prohibit the use of heavy equipment for control line construction, and increased acres burned and use of natural barriers are alternatives to heavy equipment use. The merging of resource managers and technical fire personnel has greatly reduced the land area that requires priority suppression commitment, although the full impact of free burning fires will not be known for some time. As fire technology and the understanding of the Alaska environment advances, more dramatic change in the role of wild fires and the resultant protection program can be expected.

Please see appendix for fire statistics information.

#### IV. Future Objectives for 1984

- Provide detection and initial attack to suppress fires in 9.5 million acres of newly acquired State responsibility area.
- Develop cooperative agreements in this area to reduce suppression preparedness requirements for the Division.
- Reduce suppression and presuppression billing from BLM.
- Establish aircraft contracts.
- Provide smokejumper capability to State from BLM's organization.
- Hire 18 new positions to manage and staff the new responsibility area.
- Develop administrative and attack facilities.
- Increase ground attack capability on roadside and urban area fires.

### Resource Management

Our overall mission for 1983 was much the same as the previous year, and it will continue to be similar for years to come, that is to manage State-owned forest land on a multiple-use, sustained-yield basis and to encourage its personal and industrial use by making available all of those products and benefits associated with the forest. More specifically, we set as our goals to generate revenues and enhance employment by promoting forest industry and serving the personal needs of an increasing number of Alaskans for firewood, houselogs, and rough lumber while protecting and enhancing recreational, wildlife, scenic, watershed and other amenities of the forest.

#### I. Key Objectives for 1983

- A. **Dedication of State forest land to sustained-yield forest management.** After the initial establishment of the State forest system in 1982, the Division will continue to strive for having forest lands dedicated to forest production. An assured supply of forest products at a reasonable cost over the long-term is a necessary element in the establishment and development of the forest industry in Alaska.
- B. **Provide access to State forest lands through the construction and maintenance of roads.** Increased demands for forest products by the public in the form of personal use firewood, houselogs and lumber can no longer be met by access developed by commercial operations on State forest lands alone. The Division has requested funding for roads that will allow it to better meet these demands.
- C. **Development of the management plan for the Haines State Forest Resource Management Area.** With the establishment of the State forest system in 1982, the DOF was by legislation to provide a management plan for the area during the coming year. Very high among our priorities, therefore, is to develop this management plan as directed by the legislature.

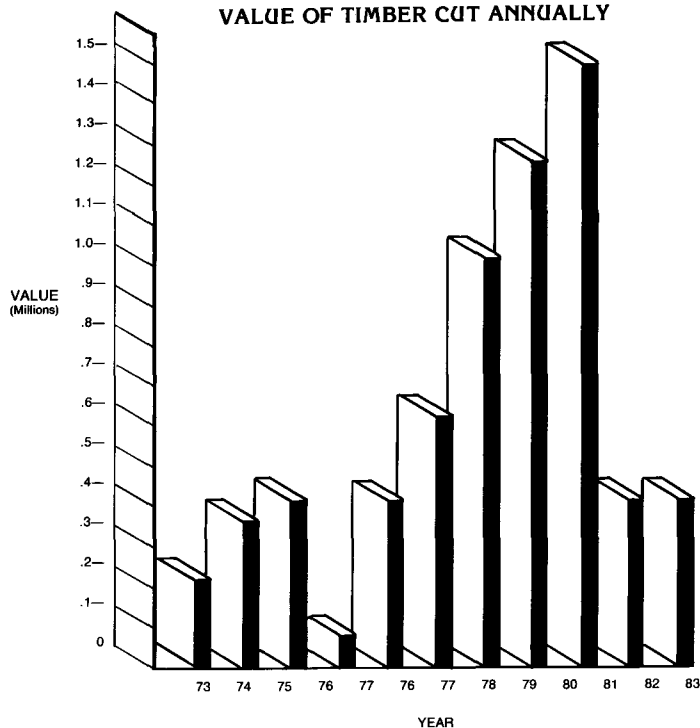


*Forest Road Construction*

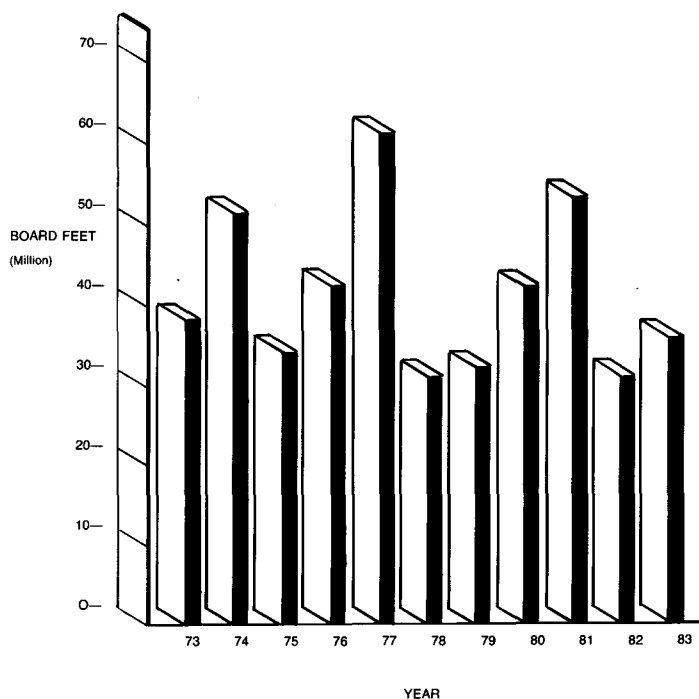
- D. **Encourage industrial forestry development.** Making forest products available on a large scale for commercial uses at reasonable costs on a sustained-yield basis encourages industrial development. The development of the industrial sector of forestry has the potential of being one of the most rewarding endeavors by the Division in terms of jobs and revenues, and we continue to look for ways to develop our under-utilized wood resources as an area for immediate potential growth.



VALUE OF TIMBER CUT ANNUALLY



VOLUME OF TIMBER CUT ANNUALLY



NUMBER OF CONTRACTS ISSUED

YEAR	COMMERCIAL USE			PERSONAL USE		
	FUEL WOOD	SAW LOGS	BEACH LOG SALVAGE	FUEL WOOD	HOUSE LOGS	SAW LOGS
1983	22	34	15	3779	61	31
1982	42	42	30	2714	65	38
1981	26	44	24	3295	80	44
1980	—	43	—	2215	8	86

CY 1983

PERSONAL USE

COMMERCIAL USE

	Firewood Permits	House Logs Sales	Saw Logs Sales	Firewood Sales	Saw Logs Sales	Beach Log Salvage Licenses Issued
<b>Northcentral District</b>						
Fairbanks	2218	21	—	9	13	
Delta	108	3	—	—	2	
Tok	—	—	—	—	—	
Total	2326	24	—	9	15	
<b>Southcentral District</b>						
Anchorage	0	0	0	0	1	
Mat-Su	1225	9	7	8	7	
Kenai	57	15	21	—	4	
Copper River	142	8	1	—	—	
Total	1424	32	29	8	11	
<b>Southeastern District</b>						
Juneau	3	—	—	—	—	1
Haines	22	5	2	5	6	1
Ketchikan	4	—	—	—	2	9
Petersburg	—	—	—	—	2	4
Total	29	5	2	5	8	15
Grand Total	3779	61	31	22	34	15
Volume Harvested	33,000 cds.	340MBF	250MBF	7,000 cds.	18,700MBF	

STATE OF ALASKA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF FORESTRY

QUARTERLY CUT AND SOLD REPORT  
4TH QUARTER — CY 83  
VOLUME — MBF SCRIBNER

VOLUME AND VALUE CUT

DISTRICT	CY — 83					FY — 84			
	SAWTIMBER	OTHER PRODUCTS*	TOTAL VOLUME	VALUE		SAWTIMBER	OTHER PRODUCTS	TOTAL VOLUME	VALUE
Northcentral	1,853.0	1,796.0	3,649.0	\$ 82,725.00	1st Quarter	8,979.0	7,254.0	16,233.0	\$ 133,801.00
Southcentral	518.0	1,438.0	1,956.0	11,000.00	2nd Quarter	2,376.0	3,283.0	5,659.0	95,218.00
Southeast	<u>5.0</u>	<u>49.0</u>	<u>54.0</u>	<u>1,493.00</u>					
Total for Quarter	2,376.0	3,283.0	5,659.0	95,218.00					
Total for Year	18,782.0	16,729.0	35,511.0	\$402,774.00					

VOLUME AND VALUE SOLD

Northcentral	3,538.0	2,426.0	5,964.0	192,416.00	1st Quarter	438.0	5,844.0	6,282.0	\$ 43,721.00
Southcentral	49,895.0	2,090.0	51,985.0	5,961,090.00	2nd Quarter	53,438.0	4,565.0	58,003.0	\$6,154,999.00
Southeast	<u>5.0</u>	<u>49.0</u>	<u>54.0</u>	<u>1,493.00</u>					
Total for Quarter	53,438.0	4,565.0	58,003.0	\$6,154,999.00					
Total for Year	56,668.0	15,477.0	72,145.0	6,338,641.00					

AVERAGE STUMPAGE PER MBF

YEAR	ASPEN	BIRCH	COTTONWOOD	HEMLOCK	SITKA SPRUCE	WHITE SPRUCE
1981	—0—	\$32.22	\$ 7.46	\$14.53	\$24.84	\$35.96
1982	—0—	27.27	10.00	10.92	28.24	25.65
1983 1st Quarter	20.74	29.95	—0—	—0—	26.19	17.59
2nd Quarter	—0—	48.59	—0—	—0—	—0—	46.60
3rd Quarter	—0—	—0—	—0—	—0—	—0—	82.00
4th Quarter	<u>12.06</u>	<u>20.14</u>	<u>—0—</u>	<u>3.50</u>	<u>170.00</u>	<u>38.84</u>
	\$14.47	\$29.95	—0—	\$3.50	\$166.93	\$39.95

\*Other products include pullogs, houselogs, cordwood, etc.

just recently been filled expressly for the development of the Tanana State Valley Forest Plan.

This past year the Division has been especially busy working on various resource plans. The first draft of the Alaska Forest Resource Plan was completed, and 60 copies were distributed for review. So far, the response has been good. The final draft is expected to be published during the second quarter of 1984. Also, during the year, our Division participated in the updating of the 1983 Statewide Natural Resources Plan and the development of several area plans including Bristol Bay, Tanana Valley, Susitna Basin, and the Willow SubBasin, the last of which included the Fish Creek Management Plan.

#### **Data Processing**

Division personnel prepared and made available to the District's computer software for storing, tabulating, and summarizing State timber sales and firewood permit data and for calculating and summarizing timber volume and grade from timber cruise data. Software for analyzing and summarizing timber inventory data is being prepared and should be available by the end of 1984.

Division personnel also prepared user manuals, and conducted training sessions for all district personnel for using resource management software packages.

#### **Christmas Trees**

Going afield to cut one's own Christmas tree is a family tradition in many parts of the world, and our Division is encouraging the practice. This past year areas were delineated for harvesting Christmas trees for personal use. In 1983 over 2000 permits were issued.

#### **Dedication of Land to Forestry**

The highlight of the year was the establishment of the Tanana Valley State Forest. Legislation was passed that dedicated 1.7 million acres to the Tanana Valley State Forest. The Division would like to express its gratitude to the individuals and organizations that gave their support to this legislative effort. The Division, through its forest management planning and operations, will work to develop its State forests in a manner that will provide you with pride in having been involved in this positive land management effort.

#### **Beach Log Salvage and Log Brand Program**

Both of these established programs continue to be an important part of the Division's resource management operation. The depressed timber market has slowed beach log salvage; however, interest in the southeastern part of the state

produced ½ million board feet by approximately 30 operators. Log brand registration and administration has remained constant over the last five years with 451 brands in existence and 85 processed this calendar year.



*Beach Log Salvage*

### **IV. Objectives for 1984**

Goals remain somewhat the same as in 1983, but several objectives will be given our special attention during 1985.

- A. Contribute to Alaska's economy with an increase of 10% in sales of forest products.

Demand for forest products continues to grow as Alaska's population increases. We have developed a budgeted plan that not only will generate more revenues through more sales of larger volumes of wood products for personal and industrial use on a sustained basis, but also will enable us to protect all of the other forest resources as well.

- B. By expanding our system of State forests, establish a dedicated forest land base for the production and protection of forest resources on a multiple-use, sustained-yield basis.

Current projections indicate that 6.0 million acres of manageable forests should be included in the State forest system. To date, we have about 1.8 million. In 1985 we hope to add the Yakataga State Forest and its 438,000 acres.

- C. Intensify management of public lands for long-term productivity and the continuous availability of forest products.

The Division will be seeking assistance to build a constituency to educate the public and legislators on the importance and potential of forest resource development.

As lands are designated for forest use, inventories will be conducted, and operational level management plans will be developed.

- D. Publish the State's first Forest Land Resources Plan under the Federal Resources Planning Act of 1976.
- E. Conduct operational level inventories on 2.3 million acres of State forest lands.
- F. Finish the Haines State Forest Resource Management Area Plan and start developing the management plan for the Tanana Valley State Forest.

- G. Promote Division of Forestry resource management training program.

One of the most significant improvements in the Division during 1983 was the establishment of a division-wide training position. A proposal for resource management training has been developed, and it should be finalized and funded in the next budget. We have recognized the need for training to increase over-all effectiveness and stay abreast of the forest management state-of-the-art. Now we must plan and implement this program.

## Forestry Assistance

The Forestry Assistance function of our Division includes the two major projects of forest practices and forest nursery along with the responsibilities of coordination of forest research activities, training coordination, assistance to the Board of Forestry, and a special report to the governor on forest industry development.

### I. Key Objectives for 1983

- A. **Increase on-the-ground assistance to logging operators.** To keep pace with the harvesting activities and strive to increase our field presence in rendering assistance in complying with the Forest Practices Act.
- B. **Improve our communication and rapport with industry.** Continue to maintain and increase our rapport with the timber industry.
- C. **Develop service forestry program.** Direct activities to forest landowners in technical assistance in salvaging their timber on agricultural lands, development of marketing information and making available forest management advice to private landowners.
- D. **Initiate research.** Initiate a research program (High Yield Forestry) to provide information necessary to make sound forest land management decisions regarding harvesting, reforestation and protection of Alaskan forest resources.
- E. **Construct forest nursery.** Relocate the State Forest Nursery to Eagle River and construct two greenhouses for seedling production.

### II. Predominant Problems

- A. **Poor market conditions.** The market condition continues to be poor but shows some signs of gradual improvement. The major concern in Alaska is for large southeast mill survival and the impact it could have on the entire industry.
- B. **Service forestry not funded.** The service forestry project did not pass in the budget approval process and \$60,000 was reduced in Federal dollars in FY84.

### III. Achievements

#### Forest Practices

- Field presence on each operation increased despite more notifications and less travel monies.
- Better contact with industry revealed through forest practice questionnaire.
- Improved protection of water quality and fish habitat through preoperational planning and advice.
- Increased interagency cooperation between the Department of Environmental Conservation and the Department of Fish and Game through better understanding of problems and development of credibility at the field level.
- 182 service forestry assists.



Forestry Education

### Forest Nursery

- Construction of two new greenhouses.
- Funding and use of inmates.
- Short crop of 150,000 seedlings.
- Processing of 1,800 bushels of cones and completion of seed processing by first of the year.
- Storage obtained for over \$250,000 worth of Alaskan seed.

### Divisional Training

- Permanent full-time position.
- Agreement to allocate funds for training.
- Career development interviews given to all DOF personnel.

### Cooperative Research

- 17 research projects developed to meet practical applications to forest management problems.
- Contract let for study of the use of interior hardwoods.
- Need of research established for vegetative management in obtaining regeneration and accelerated growth on high-site forest lands.

### Special Projects

- Special Governor's Report initiated to recommend solutions for forest industry stabilization and improvement.
- Two communities were assisted with \$16,000 of Urban and Community Forestry monies.

### IV. Future Objectives for 1984

- Produce 150,000 seedlings.
- Grow 10,000 hardwood cuttings.
- Grow 8,000 seedlings for research.
- Collect and process 16 kilograms of seed.
- Conduct 140 inspections of harvest operations.
- Conduct 13 training sessions.
- Provide coordination to 17 research projects.
- Produce 205,000 seedlings for reforestation of Rosie Creek burn.
- Provide on-the-ground assistance to private forest landowners and logging operators concerning forest management needs.
- Provide booklets and slide program information concerning the Forest Practices Act and mass soil wasting.



Alaska Sawmill



Houselog Material



# A Guide To Services

The daily operation of the Division's programs and services is the responsibility of field personnel in the area offices. Area office activities include:

1. Wildfire prevention, detection, suppression, issue of burning permits, and assistance in writing a fire plan for prescribed burning.
2. Wood cutting and Christmas tree permits, house log and commercial timber sales, beach log salvage contracts. They also will manage the State forests for a variety of uses including recreation, camping, hunting, fishing, hiking, subsistence, and some remote cabin use.
3. Area foresters may be helpful in giving advice or assistance in resolving a number of forest management problems such as insect and disease, road location, re-establishment of trees after harvest, marketing, fire protection, tree marking, sawmill improvement, and needed permits and may assist in providing public education programs or speakers for school presentation. In addition, they can instruct on how to order forest seedlings for tree planting under assistance given by the Agriculture Conservation Program.

## **DIVISION OF FORESTRY**

555 Cordova  
Pouch 7-005  
Anchorage, AK 99510-7005  
265-4465

John L. Sturgeon  
State Forester

George K. Hollett  
Deputy State Forester

Henry R. Ketchum  
Forestry Assistance/Associate State Forester

Elmer J. Hurd  
Fire Management/Assistant State Forester

David E. Wallingford  
Resources Management/Assistant State Forester

## **Division of Forestry**

Southcentral District Office  
3601 C Street  
Pouch 7-005  
786-2117  
Joe Wehrman, District Forester

Anchorage/Mat-Su Area Office  
P.O. Box 328  
Big Lake, AK 99688  
892-6027  
Bill Beebe, Area Forester

Copper River Area Office  
P.O. Box 185  
Glennallen, AK 99588  
822-5539, 5535  
Martin Maricle, Area Forester

Northcentral District Office  
3726 Airport Way  
Fairbanks, AK 99701  
479-2243  
Lester Fortune, District Forester

Fairbanks Area Office  
3726 Airport Way  
Fairbanks, AK 99701  
479-2243  
Dick Jackson Area Forester

Delta Area Office  
P.O. Box 1149  
Delta Junction, AK 99737  
895-4225, 4226  
Al Edgren, Area Forester

Southeast District Office  
230 South Franklin Street, Room 407  
Juneau, AK 99801  
465-3400  
Paul Maki, District Forester

Haines/Skagway Area Office  
P.O. Box 263  
Haines, AK 99837  
766-2120  
Paul Tweiten, Area Forester

Ketchikan Area Office  
318 NBA Building  
P.O. Box 5220  
Ketchikan, AK 99901  
225-3070  
Bill Hanson, Area Forester

Kenai Area Office  
P.O. Box 1130  
Soldotna, AK 99669  
262-7559  
Jim Peterson, Area Forester

Icy Bay Office (timber sales)  
P.O. Box 488, Icy Bay  
Cordova, AK 99574  
Rick Rogers, Forest Technician

Tok Area Office  
Box 304  
Tok, AK 99780  
883-5134  
Dick Malchow, Area Forester

Eagle River Fire Facility (Shop)  
P.O. Box 650  
Eagle River, AK 99577  
694-4099  
Dave DeHart, Shop Foreman

Petersburg Area Office  
P.O. Box 1580  
Petersburg, AK 99833  
772-3236  
Drew Grant, Area Forester

Alaska State Forest Nursery  
St. Rt. 9001, Hiland Road  
Eagle River, AK 99577  
694-5880  
Joe Stehlik, Nursery Manager

## ANNUAL FIRE TRAINING SUMMARY

Course Description	No. of Trainees	Course Hours	Trainee Hours
Basic Firefighter/Fire Behavior	27	16	432
Crew Boss	16	24	384
Fire Business Management	33	16	528
Basic Air Operations	16	16	256
Organizing for Fire Suppression	32	40	1280
Introduction to Fire Behavior	5	8	40
Water and Pumps	4	16	64
Chainsaws	4	16	64
Air Service Manager—Airport	11	24	264
Intermediate Fire Behavior	24	40	960
Safety Officer	5	24	120
Plans Function	13	56	728
Service Chief	6	40	240
Finance Chief	9	40	360
Fire Behavior Officer	2	80	160
Sector Boss	10	24	240
Fire Behavior for Managers	2	80	160
Air Quality for Managers	1	40	40
Aviation Safety Management	1	80	80
Fire and Resource Management	1	80	80
Foremanship	26	16	416
Supervisory Management	16	16	256
EFF Crew Boss	7	40	280
EFF Crew Training	60	24	1440
Prescribed Fire for Managers	2	8	16
Nation AK Fire Danger Rating System	7	32	224
<b>TOTALS</b>	<b>340</b>	<b>896</b>	<b>9112</b>

Annual Comparison Course Hours	1980	1981	1982	1983	Average To Date	5-Yr Plan Average
Initial Attack Training	326	103	132	176	177	144
Project Fire Training	216	117	384	240	239	164
EFF Training	64	130	24	64	70	68
Other Fire Training	104	288	203	416	253	550
<b>TOTAL COURSE HOURS</b>	<b>710</b>	<b>638</b>	<b>743</b>	<b>896</b>	<b>739</b>	<b>926</b>

### DIVISION OF FORESTRY 1983 AIRCRAFT EXPENSES

Contracts	Service	Total Cost
Sea Air Inc.	3 turbine helicopters	\$ 172,018.10
Air Logistics	1 turbine helicopter	107,980.00
SLAFCO, Inc.	2 amphibious tankers	332,500.00
Larry Thomas	2 fuel trucks	11,205.00
Aurora Air Service	A/C maintenance	
	2 Bonanza	35,720.57
	2 Beaver	21,938.21
		\$ 57,658.78
Ketchikan Air Service	A/C overhaul	
	1 Bonanza	14,899.08
	Communications equipment	43,688.64
		\$ 58,587.72

### SUPPORT

Office of A/C Services	Technical assistance	2,500.00
	Fuel & oil	78,631.85
Chevron USA	Aviation fuel	18,714.13
	Engine oil	315.00
		\$ 19,029.13
All Fixed-wing Rentals		\$ 256,009
All Helicopter Rentals		\$ 620,519
Cost of Retardant Delivered		\$ 152,334
<b>TOTAL EXPENDITURE</b>		<b>\$1,868,973</b>

# **DIVISION OF FORESTRY 1983 AIRCRAFT UTILIZATION**

<b>FIXED-WING:</b>		<b>FLIGHT HOURS</b>	<b>PASSENGERS</b>	<b>LBS/GAL CARGO</b>		<b>COST</b>
<b>TYPE A/C</b>						
*Rental	269.7	1,157	102,350	#	\$	256,009
DOF A/C	417.8	159	1,670			57,659
**Airtankers	53.4	55 drops	81,900	Ret.		
			7,500	H <sub>2</sub> O		209,630
<b>HELICOPTERS:</b>						
Rental—Light	825.4	1,746	58,016	#		
			11,280	H <sub>2</sub> O		334,156
Rental—Medium	297.8	3,489	330,350	#		
			88,300	H <sub>2</sub> O		286,363
Contracts	436.9	933	55,738	#		279,998
TOTALS	2,301.	7,484	546,454	#		
			107,080	H <sub>2</sub> O		\$1,423,815
			81,900	Ret.		
<b>SPECIFIC USE:</b>		<b>Fixed Wing</b>	<b>Helicopter</b>			
1. Detection	159.5	15.9				
2. Airco	100.5	2.5				
3. Recon	24.9	127.9				
4. Helitack	---	413.7				
5. Retardant	52.4	77.9				
6. Maintenance-Ferry	25.8	14.1				
7. Paracargo	---	---				
8. Cargo	57.6	353.4				
9. Transport-DOF	291.2	471.6				
10. Transport—Interagency	7.9	39.3				
11. Smokejumper	---	---				
12. Other	24.6	33.9				

\* Including BIFC Orders      \*\*State contract only

## **NORTHCENTRAL DISTRICT 1983 AIRCRAFT UTILIZATION**

<b>FIXED-WING:</b>		<b>FLIGHT HOURS</b>	<b>PASSENGERS</b>	<b>CARGO</b>		<b>COST</b>
<b>TYPE A/C</b>						
*Rental	226.6	1,051	100,000	#	\$	239,764
DOF A/C	276.3	101	925	#		38,919
**Airtankers	40.4	47 drops	70,500	Gal.		245,700
<b>HELICOPTERS:</b>						
Rental—Light	710.4	1,539	45,490	#		
			11,280	H <sub>2</sub> O		272,800
Rental—Medium	232.0	3,361	318,150	#		
			13,200	Gal		221,550
Contracts	222.2	661	40,325	#		167,122
TOTALS	1,707.9	6,713	493,965	#		
			67,500	G/Ret.		\$1,185,855
			27,480	G/H <sub>2</sub> O		
<b>SPECIFIC USE:</b>		<b>Fixed Wing</b>	<b>Helicopter</b>			
1. Detection	116.9	9.5				
2. Airco	79.1	---				
3. Recon	23.5	111.9				
4. Helitack	---	197.0				
5. Retardant	40.4	25.0				
6. Maintenance-Ferry	6.2	5.6				
7. Paracargo	---	---				
8. Cargo	45.5	358.5				
9. Transport-DOF	220.2	417.8				
10. Transport—Interagency	7.9	39.3				
11. Smokejumper	---	---				
12. Other	8.1	---				
13. Total Flight Hours	1,005.9	1,164.6				

\* Including BIFC Orders      \*\*State contract only

## **SOUTHCENTRAL DISTRICT 1983 AIRCRAFT UTILIZATION**

<b>FIXED-WING:</b>		<b>FLIGHT HOURS</b>	<b>PASSENGERS</b>	<b>CARGO</b>		<b>COST</b>
<b>TYPE A/C</b>						
*Rental	43.1	106	2,350	#	\$	16,245
DOF A/C	141.5	58	750	#		18,740
**Airtankers	12.0	8 drops	11,400	Gal.		86,800
<b>HELICOPTERS:</b>						
Rental—Light	115	207	12,526	#		61,356
Rental—Medium	65.8	128	22,200	#		
			75,100	Gal		64,813
Contracts	214.7	272	15,413	#		112,876
TOTALS	592	771	52,485	#		\$ 360,830
			7,000	Ret.		
			79,600	H <sub>2</sub> O		
<b>SPECIFIC USE:</b>		<b>Fixed Wing</b>	<b>Helicopter</b>			
1. Detection	42.6	6.4				
2. Airco	21.4	2.5				
3. Recon	1.4	16.0				
4. Helitack	---	216.7				
5. Retardant	12.0	52.9				
6. Maintenance-Ferry	19.6	8.5				
7. Paracargo	---	---				
8. Cargo	12.1	4.9				
9. Transport-DOF	71.0	53.8				
10. Transport—Interagency	---	UNK.				
11. Smokejumper	---	---				
12. Other	16.5	33.9				
13. TOTAL	196.6	395.8				

\*State contract only

# **NUMBER OF INCIDENTS AND ACRES BURNED BY AREA**

9/83

	LIGHTNING		HUMAN		TOTAL	
	NO	AC	NO	AC	NO	AC
Anch/Mat-Su	3	26	87	19.5	90	45.5
Copper River	2	2.5	36	2	38	4.5
Kenai	0	0	105	124	105	124
SCD	5	28.5	228	145.5	233	174
Fairbanks	22	22,838.5	106	8,649.5	128	31,488
Delta	4	315	30	298	34	613
NCD	26	23,153.5	136	8,947.5	162	32,101
Haines	0	0	0	0	0	0
Ketchikan	0	0	2	1	2	1
SED	0	0	2	1	2	1
TOTAL	31	23,182	366	9,094	397	32,276

NOTE: Pertains to Lands Protected by the State and includes False Alarm and No Action responses.

# **NUMBER OF INCIDENTS AND ACRES BURNED BY DISTRICT**

	LIGHTNING		HUMAN		N.A.	TOTAL	
	NO	AC	NO	AC	NO	NO	AC
SCD	5	28.5	136	145.5	92	233	174
NCD	26	23,153.5	84	8,947.5	52	162	32,101
SED	0	0	2	1	0	2	1
TOTAL	31	23,182	222	9,093	144	397	32,276

NOTE: Pertains to Lands Protected by the State and includes False Alarm and No Action responses.

# **NUMBER OF INCIDENTS AND ACRES BURNED BY DISTRICT**

9/83

	LIGHTNING		HUMAN		TOTAL	
	NO	AC	NO	AC	NO	AC
NCD	41	410	22	28,021	63	28,431
SCD	3	1,314	1	0	4	1,314
SED	0	0	0	0	0	0
TOTAL	44	1,724	23	28,021	67	29,745

NOTE: Pertains to State and Private Lands protected by BLM and includes False Alarm and No Action responses.

# **NUMBER OF INCIDENTS AND ACRES BURNED BY DISTRICT**

	SCD		NCD		SED		TOTAL	
	NO	AC	NO	AC	NO	AC	NO	AC
Federal Lands Protected by the State	31	28.25	11	4,805	0	0	42	4,833.25

NOTE: Includes False Alarm and No Action responses.

# NUMBER OF INCIDENTS AND ACRES BURNED BY SIZE CLASS

9/83

	A		B		C		D		E		F		G		F.A.		N.A.		TOTAL	
	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC
Anch/Mat-Su	38	2.5	16	18	1	25	0	0	0	0	0	0	0	0	9	—	26	—	90	45.5
Copper River	19	1	3	3.5	0	0	0	0	0	0	0	0	0	0	4	—	12	—	38	4.5
Kenai	50	3	11	19	3	102	0	0	0	0	0	0	0	0	11	—	30	—	105	124
SCD	107	6.5	30	40.5	4	127	0	0	0	0	0	0	0	0	24	—	68	—	233	174
Fairbanks	55	5.5	24	50	2	32.5	0	0	0	0	0	0	2	31,400	13	—	32	—	128	31,488
Delta	15	1	7	22	3	60	1	220	1	310	0	0	0	0	1	—	6	—	34	613
NCD	70	6.5	31	72	5	92.5	1	220	1	310	0	0	2	31,400	14	—	38	—	162	32,101
Haines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0	—	0	0
Ketchikan	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0	—	2	1
SE	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0	—	2	1
TOTAL	179	14	61	112.5	9	219.5	1	220	1	310	0	0	2	31,400	38	—	106	—	397	32,276

NOTE: Pertains to Lands Protected by the State and includes False Alarm and No Action responses.

## NUMBER OF INCIDENTS AND ACRES BURNED BY MONTH

	SCD				NCD				SED				TOTAL			
	LIGHTNING		HUMAN		LIGHTNING		HUMAN		LIGHTNING		HUMAN		LIGHTNING		HUMAN	
	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC
Pre-Season	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
April	0	0	14	26.5	0	0	1	0	0	0	0	0	0	0	15	26.5
May	0	0	49	36	7	2.75	59	8,648.25	0	0	0	0	7	2.75	108	8,684.25
June	1	0	85	99.75	9	22,830.75	49	251.75	0	0	0	0	10	22,830.75	134	351.5
July	4	3.5	43	6.5	10	320	20	47.5	0	0	2	1	14	323.5	65	55
August	0	0	18	.5	0	0	3	0	0	0	0	0	0	0	21	.5
September	0	0	19	1.25	0	0	3	0	0	0	0	0	0	0	22	1.25
TOTAL	5	3.5	229	170.5	26	23,153.5	135	8,947.5	0	0	2	1	31	23,157	366	9,119

NOTE: Pertains to Lands Protected by the State and includes False Alarm responses.

## NUMBER OF INCIDENTS AND ACRES BURNED BY CAUSE

9/83

	LIGHTNING		CAMPFIRE		EQUIPMENT		DEBRIS		SMOKING		CHILDREN		RR		INCENDIARY		MISC.		TOTAL	
	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC
Anch/Mat-Su	3	26	9	.75	8	1.5	22	11.75	3	1.75	1	2	0	0	3	1	6	.75	55	45.5
Copper River	2	2.5	1	0	1	0	6	.25	0	0	5	.25	0	0	6	.75	1	.75	22	4.5
Kenai	0	0	23	3.75	3	0	21	94	3	23.5	6	1	0	0	4	1.5	4	.25	64	124
SCD	5	28.5	33	4.5	12	1.5	49	106	6	25.25	12	3.25	0	0	13	3.25	11	1.75	141	174
Fairbanks	22	22,838.5	7	4.25	8	1.25	19	8,623.5	0	0	2	.25	3	3.75	8	10.25	14	6.25	83	31,488
Delta	4	315.25	4	.25	2	.5	8	287	2	.25	5	2.25	0	0	0	0	2	7.5	27	613
NCD	26	23,153.75	11	4.5	10	1.75	27	8,910.5	2	.25	7	2.5	3	3.75	8	10.25	16	13.75	110	32,101
Haines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ketchikan	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	—	0	2	2	1
SED	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	—	0	—	2	1
TOTAL	31	23,182.25	46	10	22	3.25	76	9,016.5	8	25.5	19	5.75	3	3.75	21	13.5	27	15.5	253	32,276

NOTE: Pertains to Lands Protected by the State and does not include False Alarm and No Action responses.

## NUMBER OF INCIDENTS AND ACRES BURNED BY OWNERSHIP

DISTRICTS	STATE		PRIVATE		BOUROUGH CITY		NATIVE		BLM		AK RR		MILITARY		USFS		USF & WS		NPS		TOTAL	
	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC
Southcentral	64	35.5	127	109.5	11	.5	7	.75	4	24.5	0	0	1	1	3	0	16	2.25	0	0	233	174
Northcentral	60	26,644.25	89	651.75	2	.25	0	0	3	4,800	5	3.75	3	1	0	0	0	0	0	0	162	32,101
Southeast	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1
TOTAL	126	26,680.75	216	761.25	13	.75	7	.75	7	4,824.5	5	3.75	4	2	3	0	16	2.25	0	0	397	32,276

NOTE: Pertains to Lands Protected by the State and includes False Alarm and No Action responses.