

Alaska Department of Natural Resources
DIVISION OF FORESTRY
1985 ANNUAL REPORT



New Tok Forestry Station

June, 1986



Alaska Department of
**NATURAL
RESOURCES**

Alaska Department of Natural Resources
DIVISION OF FORESTRY
1985 ANNUAL REPORT

June, 1986



Alaska Department of
**NATURAL
RESOURCES**

TABLE OF CONTENTS

	<u>Page</u>
State Forester's Overview	3
Region Highlight Reports	5
Section Management Reports	9
Fiscal Year Statistical Report	27
Division of Forestry Today	30
Guide to Service	31
Appendix	33

FORESTRY EMPLOYEE OF THE YEAR AWARDS

Awards for outstanding service were presented to five employees of the Department of Natural Resources' Division of Forestry at the annual meeting.

Selected for outstanding achievement awards were Wade Wahrenbrock, Karen Lewandoski, and David Freer. Fredric Bethune received the Permanent Employee of the Year Award and Richard McMahon was awarded the Employee of the Year Honorable Mention.

Wade Wahrenbrock, a Forester in Soldotna, was cited for developing the "Adopt a Tree" program. This program was designed to introduce tree species to the Kenai Peninsula that are not native to the area by allowing the public to adopt and plant seedlings and keep records of their progress.

Karen Lewandoski, Forest Technician in Fairbanks, was commended for her contributions to reforestation research, surveys, and record keeping. Her dedication, innovation, and the quality and quantity of work in the reforestation program for the Northern Region has set an example for all to follow.

David Freer, Forest Technician, was honored for the time and effort he devoted to the production of tree seedlings and the State Nursery. His willingness to transport inmate labor before and after work hours contributed to a valuable seedling production and tree improvement program.

Fredric Bethune, a Fairbanks Forester, took responsibility for the construction and maintenance of firewood roads in the Fairbanks area. His work in forestry assistance to the private landowner has also received recognition by the cooperating agencies and members of the general public with whom he works.

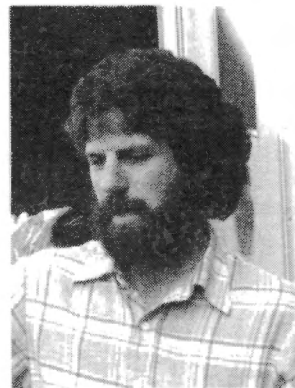
Richard McMahon, a Forester in Anchorage, was awarded an Honorable Mention for the technical assistance he provided to the development of reforestation and inventory manuals and for his professional handling of the Haines and Yakataga inventory contracts.



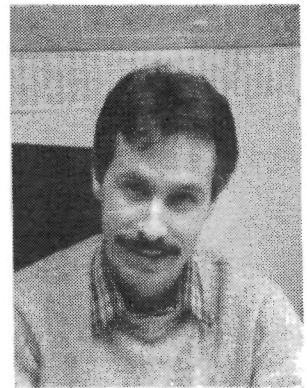
Wade Wahrenbrock



Karen Lewandoski



David Freer



Fredric Bethune

STATE FORESTER'S OVERVIEW

The 1985 Division of Forestry Annual Report is a record of our accomplishments as well as a list of our objectives for the future.

In an organization as large as ours, annual reports serve a very critical need. They provide that broad perspective on what State Forestry as a whole has done in providing service to our customers, the public. It also acts as a barometric record on how policies and budgets have effected our efficiency and production. They point out areas where we have done exceptionally well and also areas where we need to improve. I encourage all employees to take the time to review this report thoroughly. It will make us a stronger and healthier organization.

This year brought what most likely will be the first in a series of reductions in State spending. These drastic reductions have been necessitated by a steady and rapid decline in State revenue. The Division of Forestry has had to take its share of these reductions. The Division will face a continuing threat of Forestry program elimination or reduction in the years to follow since the trend of declining revenue is expected to continue. The decision on what will be cut depends to a great extent on what are defined as essential public services. We can best help these decision makers and hopefully preserve our essential programs by supplying them with the facts regarding our services to the public.

In addition to assuring the facts are known regarding our programs there are other ways to survive the upcoming budget reduction. One method that is very familiar to Forestry personnel is doing more with less! This can be done through using innovative ideas to solve problems and streamline existing procedures. We must be able to look beyond the traditional methods for doing something and try new approaches.

In summary, I strongly encourage everyone to maintain a positive attitude these next few years. When budget reductions are talked about rumors always abound. If we all keep in perspective the mission of the Division of Forestry, changes will be much easier to implement.



John Sturgeon
State Forester
Director, Division of Forestry



Esther C. Wunnicke
Commissioner
Department of Natural Resources

REGION HIGHLIGHT REPORTS

Lodgepole Pine Experimental Forest

The Copper River Area, in conjunction with the Institute of Northern Forestry planted an experimental forest near Kenny Lake. The lodgepole seedlings were from provinces in Canada and areas in Northern Alaska. The trees have shown a rapid growth rate and the species may adapt well to the local area.

Career Day in Copper River Area

The Copper River Area Forester worked with the Job Service and the local high school to organize a Career Day. Students were given information on working for the Department of Natural Resources. Many other agencies and the private industry representatives attended the half-day orientation.

Alyeska Pipeline Chip Stabilization Study

The Division provided a special sale for a contractor to provide 1560 cubic yards of chips to Alyeska Pipeline to test whether if a heavy layer of chips will stabilize severely eroding permafrost pockets on the aboveground segments of the Trans-Alaska Pipeline. If successful, this could save significant environmental impacts, as well as money, while providing another ready local market for low grade forest products.

Southwest Area Office Opened

The Southwest Area Office, located in McGrath, was fully operational this year. Nineteen employees were hired during the fire season to protect the 66.5 million acres of lands in the the area. There were 47 fires burning a total of 33,208 acres. Employment for emergency hire was given to almost all villages in the area. Support was given to U.S. Fish and Wildlife, BIA, BLM, Alaska Department of Fish and Game, and other DNR divisions.

Point MacKenzie Agricultural Burn

Sixty-two miles of windrowed slash from land clearing for agricultural purposes were burned during the months of April and May at Point MacKenzie. The Division played a lead role in coordinating this especially sensitive burn. The Department of Environmental Conservation and the Division of Agriculture cooperated with the DOF to ensure that burning did not significantly impact the air quality of Anchorage and other smaller communities downwind from the burn.

Alaska Vocational Technical School Assists in Various Projects

The Alaska Vocational Technical School forestry class at Seward, lead by Dr. Bob Kessling, assisted the Kenai-Kodiak-Area Office by planting 5,000 Sitka spruce seedlings on a 40 acre track near Seward. Stem analysis was conducted on 135 spruce near Homer. This will provide the information for a much needed local volume table to assist in forestry work. Students also assisted in cruising and boundary traversing on the Log Trail Timber Sale, which will provide a much needed access to a large block of forested land.

Kodiak-Alaska Peninsula Fire Plan

This past year saw the creation of the Kodiak-Alaska Peninsula Fire Management Plan. Planning meetings took place in Soldotna, Anchorage, Kodiak, and King Salmon. Land management units involved included five national wildlife refuges, two national parks, two borough governments, several Navy and Coast Guard bases, and two native corporations along with numerous village corporations.

Fire Investigations and Convictions

Judgements in seven Fairbanks cases were found in the State's favor concerning criminal negligence in the use of fire. If proposed Legislation is passed, the Division will be able to partially fund the prevention program through fines assessed to those found guilty of permit violation. There are over 1,500 permits issued in the Fairbanks area.

Tok Area to Have Seven Log Homes From Timber Sales

28,000 lineal feet of personal-use cabin logs were sold this year. These logs are being used to build seven \$100,000 homes in the Tok Area. This activity will provide work for 14 to 20 people during the construction period.

Delta Area Provides One Million Board Feet to Community

As requested by the Governor, the Delta Area was to provide one million board feet to the logging community this year. This was done with assistance from the Regional staff and provided three times that available in past years.

Bison Range Clearing Project

The Bison Range clearing project occurred this year with a twist. The proposed 800 acres of standing black spruce was not burned as planned, but instead 30 miles of berm piles were ignited successfully with the helitorch. There were no escapes on this controlled burn.

Haines State Forest Management Plan

After exhaustive review of the public testimony and many discussions with other State resource agencies, the Division made recommendations concerning the major issues of the plan to the Commissioner of Natural Resources, who concurred. The draft plan is currently undergoing a final editing and the final plan will be published in early 1986.

Forest Practice Activities

The Ketchikan Area Office of the Division monitored the harvest of 220 million board feet of timber from private lands in 1985. This can be compared to the harvest of 150 million board feet from U.S. Forest Service lands within the same area during the same period.

Rosie Creek Reforestation

In the summer of 1985, the Northern Region took the first major steps in reforesting the Rosie Creek fire, which burned approximately 2,000 acres of commercial forest land in 1983. Approximately 331 acres were scarified and 197,000 white spruce seedlings were planted on 302 acres. Additionally, 5 acres of lodgepole pine were planted for research by the U.S. Forest Service.

SECTION MANAGEMENT REPORTS

FIRE MANAGEMENT

The overall mission is to provide a cost effective fire management program for Alaska's State and private resources commensurate with the values at risk.

I. KEY OBJECTIVES FOR 1985

- A. Complete Interagency Fire Management Plans.
- B. Convert to National Interagency Incident Management Standards.
- C. Standardize policies with federal cooperators.
- D. Expedite the Protection Program for the Southwest (McGrath) Area.
- E. Examine technology to improve effectiveness.
- F. Enhance suppression capability near communities through agreements with local fire departments.
- G. Develop an analysis for the human caused fire problem and identify prevention actions to reduce the number of fires.
- H. Prepare a facilities maintenance schedule for each division-operated field station.

II. 1985 Fire Season Synopsis

Fire activity started relatively late in 1985. The only pre-season fire occurred again on Kodiak Island April 27th and burned 180 acres.

The Northern Region experienced a moist fire season with significantly less incidents and acreage burned.

The Southcentral Region experienced a split fire season this year. Debris burning and camp fires in May and June accounted for the majority of the activity during the 'first' season. The recent addition of fire protection responsibility for the Southwest Area accounted for the 'second' season. Multiple lightning strikes during the period of July 30th through August 5th accounted for over 35 fires and burned over 33,000 acres in the Southwest area.

Total fire occurrence during the year was significantly lower than the previous year. The additional 67 million acres of fire protection responsibility within the Southwest area accounted for 47 of the 382 incident responses and 33,208 of the total 34,199 acres burned for the season. Of those 382 incidents, 278 required suppression action, 21 were fires in limited or modified suppression areas, and 61 were false alarm or rescue actions. The net result of incident responses on State and private lands throughout Alaska totalled 339 and burned 17,851 acres.

An estimated 1.2 million dollars were saved this year by limiting fire suppression action on those fires in the limited suppression areas.

History was in the making on July 7th when the Division sent its first suppression resource out in support of the 'lower 48' states and their problem fires. Before it was all over, the Division had sent 2 aircraft, 73 tons of phoscheck fire retardant, 51 overhead and 12 19-person EFF crews to support the 'lower 48' states. The Alaskan resources arrived back home just in time for the 'second' part of the fire season in the Southwest Area.

The most significant fire of the season was the Katlitna fire in the Southwest area which was located 10 miles southeast of McGrath and burned 7,500 acres. The fire started on August 3rd and required a multi-division overhead team and 15 16-person EFF crews. After numerous days of heavy rains, the fire was declared out on August 14th. Rains not only helped suppress this potentially disastrous fire, but also put a damp ending to the 1985 fire season.

III ACHIEVEMENTS

1. Full Protection of McGrath

The State's protection area expanded to the 134 million acres that was required to balance the acres protected with the Bureau of Land Management and eliminate presuppression payment for acre imbalance. An agreement for the use of the BLM facilities at McGrath allowed the Division to accomplish the protection without building a major complex.

2. Fire Planning Completed

The Interagency Fire Management plans were completed for all major fire prone areas in the State. This now places all land protected by the State and Bureau of Land Management under the same management concept.

3. NIIMS Conversion Completed

The State made full conversion to the National Interagency Incident Management System (NIIMS). This makes the State a full partner in the National suppression effort and allows full exchange of State/federal forces when either Alaska or the 'lower 48' states encounter fire overload situations.

This provided the opportunity for the State to participate in a Class I Interagency Fire Management Team to which the DOF Senior Aviation Officer was assigned for a 3-year commitment. The team is available for nationwide assignment and responded to incidents in South Dakota, Washington, and Alaska this year.

4. Interagency Policies

Operational policies were refined between the Division and the Alaska Fire Service that allowed full exchange of personnel, equipment, and aircraft during on-going fire incidents. The importance of the exchange was demonstrated this year when State and federal forces went to the support of the 'lower 48' states, then had to effect maximum use of the resultant forces to handle a surprisingly late fire season in Alaska. Without the smooth working operational procedure and policy, several suppression efforts would not have succeeded.

5. New Technology in Fire Surveillance

The Division worked in cooperation with the U.S. Forest Service to develop an infrared camera capable of recording imagery in an on-board VHS recorder. Simultaneously, a computer linked to the LORAN-C Navigational System plots the aircraft position, resulting in both an infrared scan and map of the fire. The Division's T-28 aircraft was used as the platform. This was extremely successful and used in Alaska, Nevada, Idaho, and Montana this season.

6. Prescribed Fire

The Division successfully conducted a major burning operation on the Point MacKenzie Agriculture dairy project. In May, 62 miles of windrowed black spruce vegetation were burned to reduce the fire hazard and control smoke transport into populated areas.

7. Enforcement

Fire law enforcement is a very important part of the Fire Prevention Program. Convictions and civil settlements under this program generate publicity and emphasize the fact that the Division has a burn permit program and that we take it seriously. The fact that 71 Notice of Violation's (NOV's) were issued but only 25 prosecutions were pursued shows that we are only attempting to punish repeat or blatant violators. The rest of the 46 NOV's were warnings issued to unintentional violators.

The total 25 prosecutions have resulted in 22 convictions and one pending case. This demonstrates the high degree of competence our prevention technicians have attained. This is the result of the heavy commitment the Division is making to the fire prevention program and our low turnover rate among prevention technicians. The 22 criminal convictions,

guilty pleas, and the civil suits they generated had the following results:

Total Fines Levied	-	\$5,625.00
Days of Suspended Jail Sentence	-	70
Days of Community Service	-	190

8. Aviation Management

1985 proved to be quite a challenge for the Division as a number of precedent setting events tested our mettle (and our metal) in air operations.

This was the first season of operation in McGrath which posed logistical challenges new to DOF. All aspects of the operation were impacted, beginning with early season cargo movements, air attack, and support on several remote fire situations, as well as late season resource missions and demobilization of the field station.

Another 'first' was the operational testing of the Thermal Recorded Observation and LORAN Locating (TROLL) system, a infrared video imagery and mapping system which we custom designed for Alaskan conditions. And test it we did, not only in Alaska but in support of fires in Nevada, Idaho, Montana, and British Columbia. TROLL should reach perfection during the 1986 season and is receiving a great deal of attention nationally.

Other achievements included: successful paracargo operations utilizing State operated DeHavilland Beavers; testing and fire application of a 500 gallon water-scooping 'thrush' crop duster; and utilization of the only existing multi-mission C-97 for aircraft cargo, paracargo, and retardant operations.

These innovative ideas are resulting in a well rounded and efficient aviation program which is specifically adapted to the State's needs.

Total utilization for the year is shown on the aircraft report found in the appendix. Below are some interesting comparisons between this year's statistics and the average utilization for DOF.

<u>ITEM</u>	<u>1985</u>	<u>AVE</u>
Helicopter Flight Hours	929	1,304
Passengers	4,734	4,341
gallons water	94,125	97,573
Lbs. cargo	637,997	442,431
Fixed-wing flight hours	1,248	958
Passengers	1,148	957
Gallons retardant/water	180,000	142,867
Lbs. Cargo	539,550	189,862

The Division of Forestry is striving for even more improvement in its aviation program in an effort to perfect performance, professionalism, and safety. Pending requests for additional positions are critical to that objective and may be achieved during the 1986 season.

IV. OBJECTIVES FOR 1986

1. Continue developing the manual directives.
2. Continue emphasis on ICS training to maintain the Division's Strength-of-Force requirement.
3. Update the interagency fire planning data.
4. Increase emphasis on the aviation program in operations, technology, and management.
5. Stabilize the seasonal work force.
6. Reduce administrative costs.
7. Increase the interface of National Fire Management Analysis System output into the budget development process.
8. Balance protection allocations with protection priorities.

RESOURCE MANAGEMENT

The overall mission of the Resource Management section is to manage those State-owned forest lands dedicated to multiple-use management and ensure that the utilization and development of the resources on those lands be maintained on a sustained yield principle. Personal and industrial use of the forest resources are encouraged by making available all of those products and benefits associated with the forest. More specifically, our goals are to generate revenue, enhance employment by promoting forest industry, and provide an increasing number of Alaskans with firewood, houselogs, and other forest products for their personal needs while protecting and enhancing recreational, wildlife, scenic, watershed, and other amenities of the forests.

I KEY OBJECTIVES FOR 1985

- A. Expand our system of State Forests to provide for a dedicated land base for the production and protection of forest resources.
- B. Continue operational level inventories on 10.0 million acres of State lands. Complete Haines and Tanana State Forest Inventories. Begin detailed forest mapping of the Susitna Valley.
- C. Complete the management plan for the Haines State Forest Resource Management Area.
- D. Complete the Forest Land Resource Plan, a State/Federal cooperative plan, initiated as a result of the Federal Resources Planning Act of 1976.
- E. Increase the sale of forest products ten percent by offering more sales of larger volume.
- F. Promote resource management training for Division personnel.
- G. Implementation of Governor's Timber Task Force.

II PREDOMINANT RESOURCE PROBLEMS OF '85

The timber industry in Southeast Alaska continues to suffer because of poor foreign timber markets. The economic well being of Southeast Alaska's timber industry is essentially governed by export market conditions and competition from other world wide suppliers. The timber industry in interior Alaska continues to grow towards meeting the demand for domestic markets.

One of the three operations in Southeast Alaska, Pacific Forest Products, who filed for protection under Chapter 11 of the U.S. Bankruptcy Code filed Chapter 7 Bankruptcy. The sawmill and other assets of Pacific Forest Products are expected to be offered for sale at public auction in 1986.

III ACHIEVEMENTS

A. State Forest Establishment

Even though the DOF/DNR did much work to establish State forests in the Cape Yakataga area and Matanuska Valley, neither legislation was acted upon during the legislative session. Both bills will be part of the second half of the legislative session in 1986 where the Division will continue to promote their establishment.

B. Tanana Valley and Haines Inventories

a. Tanana Valley State Forest Inventory

The timber inventory was completed on two million acres of the Tanana Valley State Forest. The inventory project was a cooperative effort with the U.S. Department of Agriculture, Soil Conservation Service and cost the State about ten cents per acre. The final report is underway and is expected to be completed in 1986 following completion of map automation.

b. Haines State Forest Reinventory

The DOF with the Division of Geologic and Geophysical Survey contracted with Richard Sanders for the measurement of 90 inventory plots and the destructive sampling of 150 trees. In addition, DOF staff remeasured 31 inventory plots originally established in 1965.

C. Haines Management Plan

1985 saw the near-finalization of the management plan for the Haines State Forest Resource Management Area. The planning effort included an updated determination of the annual allowable cut for the forest, determination of productivity and operability of the forest, an analysis of the many uses of the State Forest, and resolution of the major issues of the area. Public hearings were held in January of 1985, and the final plan should be in the hands of State land managers in early 1986.

D. Forest Resources Plan

As a result of the Resources Planning Act of 1976 the Division of Forestry has attempted to draft a forest resources plan on State lands. This effort has gone through numerous drafts with a final product still in the future. Our latest effort has been to develop a 5-year forest resource plan, which we hope will become available during 1986.

E. Timber Harvest

During CY 1985, approximately \$192,000 was generated from the harvest of 12,800 MBF of timber products from State lands. These products were moved through 66 State sale contracts, 1,457 fuelwood permits, and 71 personal-use houselog sales.

The Area Forestry Offices in Soldotna and Big Lake of the Southcentral Region assisted in the formation of two associations of local loggers. The Kenai Peninsula and Mat-Su Loggers Associations were formed to promote the forest industry in their local areas.

F. Training

Working with the Cooperative Extension Service, University of Alaska, and the S&PF, Division of the USFS, the Northern Region forestry personnel in the Fairbanks area put together a 'hands-on' training session dealing with cable logging using a Clearwater Yarder made available through the USFS.

Division personnel attended various other resource management related training offered by Universities, private companies, and the federal government.

G. Timber Task Force Update

The resource management section coordinated implementation of a number of the Governor's Timber Task Force recommendations. The section worked specifically on:

1. Acceleration of forest inventory.
2. Establishment of State Forests.
3. Forest transportation facilities and access plan.
4. University contract for transactional evidence method review.
5. Guidelines for Log Transfer Facilities.

All of the recommendation will be worked on during the next fiscal year by DOF representatives.

H. Alaska Coastal Management Program Consistency

The Southeast Region of the Division of Forestry is almost totally within the Coastal Zone. In 1985, the Southeast Region played an increasing role in the review of proposed projects submitted for review under the Alaska Coastal Management Program. This important program will continue in order to ensure that Alaska's valuable coastal resources will receive their due consideration when a project is proposed which could possibly affect them.

I. Policy and Procedure Manuals

During 1985, work continued in updating the timber sales administration and preparation sections of the Policy and Procedure Manual. These sections pertain to timber sales preparation and administration. Work in the meantime is continuing on other sections pertaining to timber sales appraisals and log branding.

J. Beach Log Salvage and Log Brand Registration

The beach log salvage program continues to be an important resource management program in that valuable forest products abandoned in the coastal waters of the state are being salvaged. During 1985, 215,000 board feet (MBF) of timber were salvaged from the coastal waters and beaches of southeast Alaska. Continued poor markets for timber resulted in reduced salvage activity with only 7 active licenses in effect at the end of 1985.

The number of log brands registered with the Division dropped considerably during the past year. The Division issued 51 certificates for new and renewed brands during the year. However, almost 29 log brands were cancelled upon expiration. The majority of the number of log brands registered with the State continues to be in southeast Alaska where much of the timber products are transported or stored in coastal waters of the state.

K. Inventory

Yakataga Inventory data analysis was not completed in order that data for the Tanana Valley State Forest could be completed for the management plan development. During this same period the data analysis for the Haines State Forest was updated and results were made available for the Haines Management Plan.

L. Computer Programs

Analytical computer programs for Resource Management continue to be improved through updating of existing programs while developing/adapting available state-of-the-art to our needs. Utilization of existing programs available through federal resource management agencies by cooperative agreements has been very helpful in the development of state forest resource plans.

M. Reforestation Fund

Working with the State Department of Administration the mechanism has been developed and put into place for revenues to be credited to the reforestation fund, if so appropriated

by the legislature, from the sale of forest products from State lands.

N. Rosie Creek Salvage Program

Salvage operations continue on the Rosie Creek Burn. To date approximately 75 percent of fire damaged timber is under contract and approximately 50 percent has been harvested. The remaining volume is expected to be offered for sale during 1986.

IV OBJECTIVES FOR 1986

- A. Complete data analysis and written report for Cape Yakataga and Haines Inventories.
- B. Develop and integrate timber management analytical computer software programs.
- C. Review State permits and disposals and federal activities to ensure compliance with the Alaska Coastal Management Program. Assist the coastal zone districts in the development of their coastal zone management plans.
- D. Provide an increased supply of forest products to industry from State forest lands.
 - Prepare and offer at least 59 commercial timber sales. Volume offered will be increased by at least 10 MMBF.
 - Establish two new State Forests in the Cape Yakataga Area and the Matanuska-Susitna Valley.
- E. Continue to implement the Governor's Timber Task Force Report.
- F. Complete and implement the Haines Forest Management Plan.
- G. Prepare detailed, long-term Cape Yakataga Timber Harvest Plan.
- H. Complete detailed forest mapping of the Big Lake Area in the Susitna Valley.
- I. Draft the Tanana Valley State Forest Management Plan.

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FORESTRY

CUT AND SOLD REPORT
CY 1985
VOLUME - MBF SCRIBNER

<u>VOLUME AND VALUE CUT</u>					<u>VOLUME AND VALUE SOLD</u>			
<u>REGION</u>	<u>SAWTIMBER</u>	<u>OTHER PRODUCTS*</u>	<u>TOTAL VOLUME</u>	<u>VALUE</u>	<u>SAWTIMBER</u>	<u>OTHER PRODUCTS*</u>	<u>TOTAL VOLUME</u>	<u>VALUE</u>
Northern	3,452.0	6,379.0	9,831.0	\$127,958.00	5,513.0	6,669.0	12,182.0	\$175,488.00
Southcentral	545.0	1,190.0	1,735.0	46,257.00	3,353.0	1,345.0	4,698.0	108,661.00
Southeast	937.0	361.0	1,298.0	17,894.00	2,937.0	361.0	3,298.0	29,269.00
Total	4,934.0	7,930.0	12,864.0	\$192,109.00	11,803.0	8,375.0	20,178.0	\$313,418.00

VOLUME UNDER CURRENT CONTRACTS

<u>REGION</u>	<u>FIREWOOD (CORDS)</u>	<u>SAWTIMBER (MBF)</u>
Northern	24,711	22,184
Southcentral	4,818	7,003
Southeast	127	1,367
Total	29,656 CORDS	30,554 MBF

AVERAGE STUMPAGE PER MBF

<u>YEAR</u>	<u>ASPEN</u>	<u>BIRCH</u>	<u>COTTONWOOD</u>	<u>HEMLOCK</u>	<u>SITKA SPRUCE</u>	<u>WHITE SPRUCE</u>
1981	-	\$32.22	\$ 7.46	\$14.53	\$ 24.84	\$35.96
1982	-	27.27	10.00	10.92	28.24	25.65
1983	14.47	29.95	-	3.50	166.93	39.95
1984	10.60	26.70	-	-	32.72	20.20
1985	-	-	15.10	21.85	17.65	26.52

NUMBER OF CONTRACTS ISSUED

<u>YEAR</u>	<u>COMMERCIAL USE</u>			<u>PERSONAL USE</u>		
	<u>FUEL WOOD</u>	<u>SAW LOGS</u>	<u>BEACHLOG SALVAGE</u>	<u>FUEL WOOD</u>	<u>HOUSE LOGS</u>	<u>SAW LOGS</u>
1985	25	33	8	1957	52	19
1984	30	44	28	4088	55	19
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 1985

	<u>PERSONAL USE</u>			<u>COMMERCIAL USE</u>		
	<u>FUELWOOD PERMITS</u>	<u>HOUSELOG SALES</u>	<u>SAWLOG SALES</u>	<u>FIREWOOD SALES</u>	<u>SAWLOG SALES</u>	<u>BEACHLOG SALVAGE</u>
Northern Region						
Fairbanks	1,340	21	0	10	10	
Delta	68	0	0	2	4	
Tok	141	8	0	5	1	
Total	1,549	29	0	17	15	
Southcentral Region						
Mat-Su	175	15	8	3	7	
Kenai	77	7	5	2	3	
Copper River	24	1	0	1	1	
McGrath	0	0	0	0	0	
Total	276	23	13	6	11	
Southeast Region						
Juneau	40	0	2	0	2	1
Haines	23	0	0	2	2	0
Ketchikan	68	0	3	0	0	4
Petersburg	1	0	1	0	3	3
Total	132	0	6	2	7	8
Grand Total	1,957	52	19	25	33	8

CY

YEAR	<u>HARVEST</u>		<u>SOLD</u>	
	VOLUME(MBF)	VALUE(\$)	VOLUME(MBF)	VALUE(\$)
1981	53,678.0	1,491,554.00	18,402.06	353,571.00
1982	35,198.0	488,512.00	24,154.0	440,304.00
1983	35,511.0	402,774.00	72,145.0	6,338,641.00
1984	28,043.0	833,793.00	21,087.0	322,488.00
1985	12,864.0	\$192,109.00	20,178.0	313,418.00

FORESTRY ASSISTANCE

The overall mission of the Forestry Assistance is combining professional management services, regulatory measures, and economic incentives in a complementary manner in conjunction with other disciplines to insure perpetual supplies of renewable forest resources.

More specifically, Forestry Assistance's goals are:

1. Producing quality forest seedlings at the nursery, financed through general fund and reforestation fund monies, as well as income from private sales;
2. reducing impacts on soil and water resources by resource management activities; and,
3. achieving optimum growth and harvest for Alaska's non-industrial forest land. To accomplish these goals good management decisions must be made from current research investigations and conclusions as well as practical experience.

I. Key Objectives 1985:

- A. Realize optimum growth capacity of 600,000 seedlings from the Eagle River Nursery. Produce 2,000 hardwood cuttings and 5,000 special tree seedlings for research purposes.
- B. Process cones at nursery collected from Alaska.
- C. Computerize the seed and seedling record system.
- D. Construct the headhouse base at the nursery.
- E. Cooperate with the USFS in inaugurating a tree improvement program.
- F. Conduct 130 forest practice inspections throughout the State.
- G. Conduct 10 forest practice and service forestry training session for field personnel and logging operators.
- H. Conduct two board of forestry meetings.
- I. Continue coordination of forest research activities on Rosie Creek and add a research project for Southcentral Alaska.
- J. Implement divisional training program.
- K. Work with the Department of Commerce and Economic Development in promoting Alaskan wood products in Alaska and the Pacific Rim countries.

II Predominate Assistance Problems

- A. There is a definite need for a stable supply of workers for the forest nursery.
- B. Development of the forest industry in interior Alaska is a predominate issue.

III Achievements

- A. Forest nursery - The Eagle River Forest Nursery produced 401,000 tree seedlings. They also produced 21,000 cuttings. A second anticipated crop was not planted due to a lack of secure labor to produce the crop. The tree distribution is as follows:

Private	41,400	11%
State	286,000	72%
Federal	56,700	14%
Municipal	10,000	3%
	<u>394,100</u>	<u>100%</u>

- B. Seed processing - 236 seed collections were received in 1985 of which 56 were cone collections for further processing. The Icelandic seed expedition accounted for 54 cone collections. An estimated 45 lbs. of seed will be produced from the cones. The other collections came from the following:

- 7 from private collections
- 1 from State collection
- 155 from federal research project collections
- 7 from commercial collectors at the nursery request
- 12 from international collections in exchange for Alaska seed.

- C. Computerization of seed and seedling record system - A complete system on D-base III has been set up and the information has been entered into the system. This will provide invaluable information for tree improvement programs, as well as a record of available trees and seed from the nursery.
- D. Headhouse construction - The excavation is complete and a building has been purchased. Continued construction will start after breakup next spring.
- E. Tree improvement - The State and private forestry group are working on recommendations and a tree improvement program to be completed mid '86.

- F. Forest Practice inspections - 153 forest practices inspections were conducted on forest operations throughout Alaska. This was 23 over the anticipated 130 inspections even though there were 4 less active operations this year. 33 more notifications were received than last year. Inspections conducted by the areas are as follows:

Juneau	35
Ketchikan	49
Petersburg	24
Mat-Su	21
Kenai	24
Fairbanks	0

- G. Training courses - The forest practices foresters conducted local training courses with local timber operators to provide up-to-date techniques to best meet the intent of the forest resources practices act.
- H. Board of Forestry - The Board of Forestry held its first meeting in Juneau, March 18th and 19th and subsequently gave its recommendations to the Commissioner of Natural Resources on the Haines State Forest Plan.
- I. Forest Research - The research projects were continued on the Rosie Creek project in Fairbanks. The continuation of the 2 year research project, started in Southcentral Region by Dr. Roseann Densmore, concerning white spruce regeneration, following site preparation, in Southcentral Alaska.
- J. Divisional Training - Due to funding reductions it was decided to eliminate the divisional training officer and the majority of duties were delegated to the regional training officers.
- K. Alaska Wood Products - Two delegations were invited to Alaska from Korea and Japan in a effort to promote the use of Alaskan forest products in the Pacific Rim Market. The Division of Forestry and the Department of Commerce and Economic Development jointly sponsored a booth at the Anchorage Home Show demonstrating Alaska wood products.

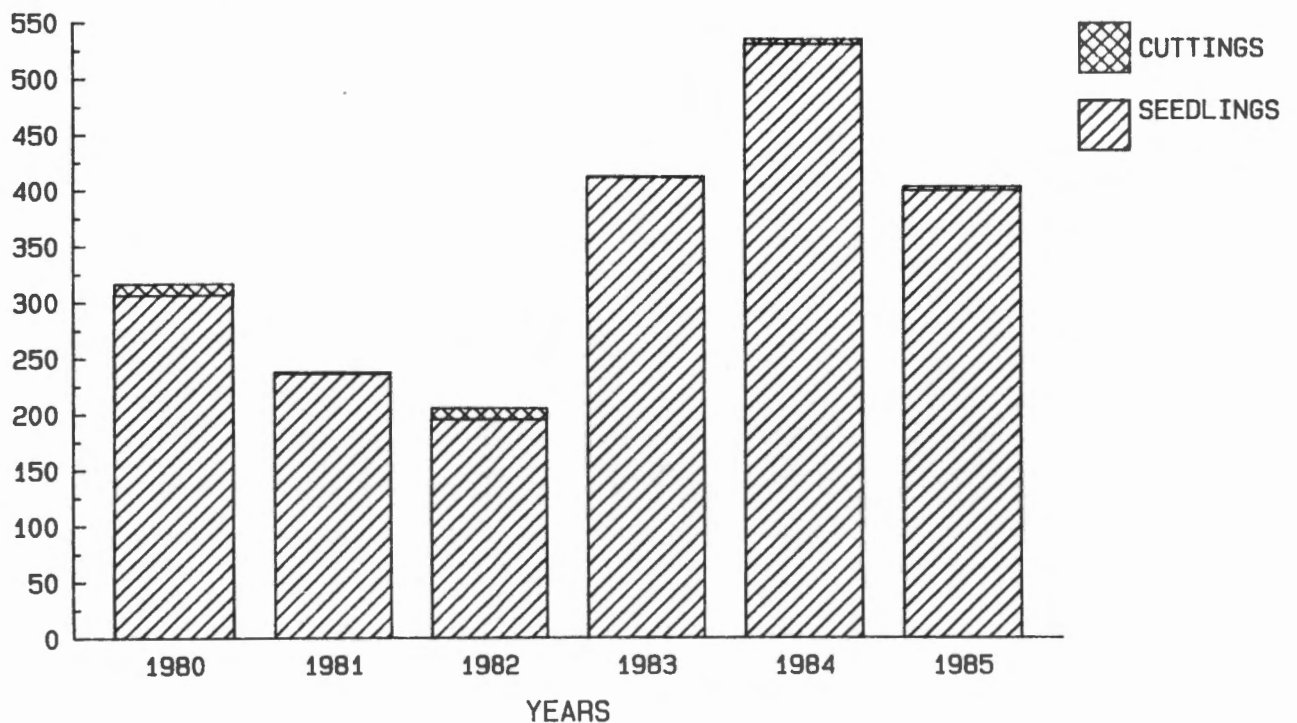
IV. Objectives in 1986

- A. Produce containerized seedlings.
- B. Process, as available, cones from Alaskan sources.
- C. Complete the plan for tree improvement in conjunction with the University of Alaska and the U.S. Forest Service.

- D. Conduct 140 forest practice inspections throughout the state.
- E. Implement the service forestry training project at the Big Lake Area Office, on a trial basis.
- F. Continue coordination of forestry research.
- G. Continue emphasis on promotion of Alaskan wood use on the Pacific Rim and domestically.
- H. Continue career development program.
- I. Utilize the federal cooperative funds in the urban community forestry program.
- J. Continue to encourage the use of low quality wood fiber for energy by creating information bases to be used for basic investment decisions.

ALASKA DIVISION OF FORESTRY STATE FOREST NURSERY PRODUCTION 1980 TO 1985

SEEDLINGS IN THOUSANDS



FISCAL YEAR STATISTICAL REPORT
DIVISION OPERATING BUDGET

FUNDING SOURCES:	FY84	FY85	FY86
General Funds	\$7,881,453	\$8,543,000	\$8,048,900
Federal Funds	321,062	26,000	576,000
Other Funds	<u>21,500</u>	<u>13,900</u>	<u>50,300</u>
TOTAL	\$8,224,015	\$8,582,900	\$8,675,200

	PROGRAM EXPENDITURES	AUTHORIZED
RESOURCE MANAGEMENT:		
Icy Bay	163,716	131,700
Timber Sale Preparation	296,472	455,900
Timber Sale Preparation/Fed	-0-	35,000
Small Timber Sales	649,196	661,900
Haines State Forest	212,789	188,200
Tanana Valley State Forest	51,645	62,000
Fairbanks Firewood Access	<u>97,404</u>	<u>-0-</u>
TOTAL	\$1,471,222	\$1,534,700

FORESTRY ASSISTANCE:		
State Forest Nursery	182,932	131,400
Forest Practices	317,280	354,400
Forest Practices/Fed	-0-	65,000
Urban & Community Forestry	<u>17,000</u>	<u>-0-</u>
TOTAL	\$ 517,212	\$ 550,800

FIRE MANAGEMENT:		
Presuppression/Alaska	3,732,405	721,600
Presuppression/Tok/Nenana	1,201,963	-0-
Presuppression/McGrath	235,908	-0-
Presuppression/Northern	-0-	1,912,300
Presuppression/Southcentral	-0-	2,740,000
Rural Community Fire Protection	60,000	65,000
Presuppression/Fed	<u>198,000</u>	<u>411,000</u>
TOTAL	\$5,428,276	\$5,849,900

FORESTRY ADMINISTRATION:		
Forestry Administration	726,305	562,800
Student Interns	-0-	70,000
Forestry CZM	21,500	22,500
Forestry Data Processing	-0-	31,200
Interdivisional Assistance	<u>59,500</u>	<u>53,300</u>
TOTAL	\$ 807,305	\$ 739,800

GRAND TOTAL	\$8,224,015	\$8,582,900	\$8,675,200
-------------	-------------	-------------	-------------

RESOURCE MANAGEMENT PROGRAMS

RESOURCE FACTS	1984	1985
Classified Forest Land Base	Acres	Acres
Forest	3,412,086	3,234,090
Water Resources	127,555	127,535
Resource Management	8,325,476	31,494,460
Wildlife Habitat	1,651,700	1,913,947
Wildlife Habitat/Water Resources	48,348	55,046
Forest/Wildlife Habitat	56,638	283,420
Public Recreation	1,358,453	1,353,340

STATE FOREST SYSTEM

Haines	229,000	229,000
Tanana	1,800,000	1,800,000

FIRE MANAGEMENT

	FY84	FY85	CY85
Acres of State Responsibility	82.5	118,000.	118,000.0
Acres w/in State Protection Area	67.5	134,000.	134,000.0
Fire Incidents	441	343	382
Acres Burn	7,719	1,941	34,199
Burn Permits Issued	2,599	1,638	1,680
Conclusive Investigations	45	-	-
Hours Flown in Aircraft	2,301	-	-
Training Hours	771	-	-

RESOURCE MANAGEMENT

Icy Bay Timber Sales

Inspections	14	7	0
Acres Laid Out	0	0	0
Miles of Road Laid Out or Restaked	0	1	2
Acres of Regeneration Surveyed	<u>260</u>	<u>400</u>	<u>800</u>
Auctions	<u>1</u>	<u>0</u>	<u>0</u>

Timber Sale Preparation

Statewide Plan Element	1	1	1
Area Plans	4	5	5
Training Courses Completed			
Inventory Initiated	1	0	1

	FY84	FY85	CY85
Timber Sale Preparation, cont.			
Log Salvage Licenses	42	18	8
Log Brands Administered	376	344	349
Acres Planted	31.0	553	245
Sacks of Cones Collected	1,527	133	0
Small Timber Sales			
Cords of Wood for Sale	42,400	26,380	22,450
Sale Volume of Houselogs/MBF	77	109	127
Sale Volume of Saw Logs/MMBF	10,950.0	6,863	8,800.0
Haines Timber Sale			
Inspections	20	9	3
Acres Laid Out	647	291	0
Miles of Road Laid Out	9.4	3.6	0
Fairbanks Access Road Development			
Miles of Road Constructed	7.7	1.8	0
Miles of Road Maintained	57	114	95
FORESTRY ASSISTANCE			
State Forest Nursery			
Seedlings Produced	319,100	275,700	107,100
Hardwood Cuttings Produced	0	3,300	3,300
Seedlings for Research	53,350	296,900	293,900
Pounds of Seed Processed	1043.2	585	20
Forest Practices			
Inspections	123	153	143
Training Sessions	10	10	10

DIVISION OF FORESTRY
3601 'C' Street
P.O. Box 7-005
Anchorage, Alaska 99510
762-4465



John Sturgeon
State Forester



George Hollett
Dep. State Forester



Rod Ketchum
Assoc. State Forester



Elmer Hurd
Asst. State Forester



Dave Wallingford
Asst. State Forester



Les Fortune
Regional Forester



Joe Wehrman
Regional Forester



Paul Maki
Regional Forester

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 the Agriculture conservation program.

Forestry Regional and Area Offices

Northern Region
Regional Forester
Lester Fortune
3726 Airport Way
Fairbanks, AK 99709
479-2243

Southern Region
Regional Forester
Joe Wehrman
P.O. Box 7-005
Anchorage, AK 99510
762-2117

Southeastern Region
Regional Forester
Paul Maki
400 Willoughby Ave.
Juneau, AK 99801
465-2491

AREA OFFICES

Fairbanks
Area Forester
Don Fuller
3742 Airport Way
Fairbanks, AK 99709
479-2243

AREA OFFICES

Copper River
Area Forester
Martin Maricle
P.O. Box 185
Glennallen, AK 99588
822-5534

AREA OFFICES

Juneau
Area Forester
Bruce Johnson
400 Willoughby Ave.
Juneau, AK 99801
465-2491

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

Kenai Peninsula
Area Forester
Jim Peterson
S.R. 2, Box 107
Soldotna, AK 99669
262-7559

Haines
Area Forester
Roy Josephson
P.O. Box 263
Haines, AK 99827
766-2120

Tok
Area Forester
Dick Malchow
Box 10
Tok, AK 99780
883-5134

Mat-Su
Area Forester
Bill Beebe
P.O. Box 520445
Big Lake, AK 99652
892-6027

Ketchikan
Area Forester
Bill Hanson
P.O. Box 3361
Ketchikan, AK 99901
225-3070

McGrath
Area Forester
Joe Stam
Box 130
McGrath, AK 99627
524-3010

Petersburg
Area Forester
Andrew Grant
Box 1580
Petersburg, AK 99833
722-3236

APPENDIX

TRAINING SUMMARY - DOF PARTICIPATION

Fire Training

Major emphasis for 1985 was ICS transition training. The Division participated with Alaska Fire Service and the U.S. Forest Service in a portion of the training.

TYPE OF TRAINING	NUMBER OF COURSES	PARTICIPANTS	COST
Emergency Fire Fighter	4	60	1,148
Wildfire for Fire Depart.	14	93	2,050
Initial Attack	5	30	3,000
Extended Attack	5	19	1,700
Fire Management	9	124	7,000
TOTALS	37	326	14,898

Resource Training

Major emphasis within the Division was technical skills training.

TYPE OF TRAINING	NUMBER OF COURSES	PARTICIPANTS	COST
Technical Training	7	43	3,400
Forest Management	10	90	6,100
Computer Management	15	49	1,550
TOTALS	32	182	11,050

Personnel Management

Major emphasis for 1985 was in supervision and management.

TYPE OF TRAINING	NUMBER OF COURSES	PARTICIPANTS	COST
Administrative and Clerical	6	29	1,140
Supervision and Management	18	156	2,970
First Aid and Safety	10	69	1,875
TOTALS	34	254	5,985

Grand Total =

Number of courses: 103 Participants

Participants: 762

Cost: \$31,933



DIVISION OF FORESTRY

AIRCRAFT UTILIZATION REPORT

Region Northern and Southcentral
 Area Totals
 Month 1985 Season

CATEGORY:	FLIGHT HOURS					FLIGHT COST				
	DOF FEP	Contract		Rental		FEP	Contract		Rental	
		FW	RW	FW	RW		FW	RW	FW	RW
1. DETECTION	279.8	6.1		3.4		57356	1281		530	
2. AIR COORDINATION	38.7					7933				
3. RECONNAISSANCE	80.5	4.7	20.4			16381	987	7032		
4. HELITACK			376.7		1.6			148543		686
5. RETARDANT/BUCKET		82.7	39				79080	15185		
6. REPOSITIONING	20.8	50.6	30.6		6.9	6314	34423	14456	2888	
7. CARGO/PARACARGO	40.5	26.5		12.7		5362	15413		57074	
8. FIRE TRANSPORT	17.8	98.3	138.6	441.3	246.3	2524	32076	83949	228481	156347
9. NON-FIRE TRANSPORT	12.1	19.2	50.5	31.7		1775	4032	17435	5822	
10. SMOKEJUMPER DEL.		14.6					7662			
11. TRAINING/MAINT.	58.8	3.7	7.9	6.6		11541	2184	2878	990	
12. MISC. (DESCRIBE)	1.8		10.4			369		4311		
13. TOTALS ---	550.8	201.3	674.1	495.7	254.8	109555	100623	579267	348185	157033
14. # PASSENGERS	133	73	3813	942	921	Total line 13 \$ 1,294,663				
15. # GALLONS RETARDT.		151600				Plus line 17 \$ 806,299				
16. # GALLONS WATER		15000	66625	14200	27500	Plus Fuel \$ 229,989				
\$ AVAILABILITY IN 17. EXCESS OF FLIGHT \$		378715	424712	310	2562	TOTAL COST \$ 2,330,951				
# LBS CARGO 18.	13050	122595	454467	403905	183530					

STATE PROTECTION AREA

NUMBER OF INCIDENTS AND ACRES BURNED BY PROTECTION LEVEL

AREA	FULL		MODIFIED		LIMITED	
	NO	AC	NO	AC	NO	AC
MAT-SU	109	113.9	0	0.0	1	0.0
COPPER RIVER	36	22.5	1	0.8	3	3.3
KENAI	59	342.0	3	288.0	0	0.0
SOUTHWEST	13	8,416.5	6	45.5	28	24,746.7
FAIRBANKS	58	29.3	0	0.0	0	0.0
DELTA	34	184.3	1	0.1	1	2.0
TOK	9	3.1	1	1.0	1	0.0
SOUTHEAST	1	0.0	0	0.0	0	0.0
TOTAL	319	9,111.6	12	335.4	34	24,752.0

NOTE:

Does not include Search and Rescue responses.

NUMBER OF INCIDENTS AND ACRES BURNED BY AREA

AREA	LIGHTNING		HUMAN		TOTAL	
	NO	AC	NO	AC	NO	AC
MAT-SU	1	0.0	104	113.9	105	113.9
COPPER RIVER	0	0.0	35	26.6	35	26.6
KENAI	0	0.0	49	630.0	49	630.0
SOUTHWEST	37	33,032.4	7	176.3	44	33,208.7
FAIRBANKS	2	3.0	40	26.3	42	29.3
DELTA	0	0.0	34	186.4	34	186.4
TOK	1	1.0	8	3.1	9	4.1
SOUTHEAST	0	0.0	1	0.0	1	0.0
TOTAL	41	33,036.4	278	1,162.6	319	34,199.0

NOTE:

Does not include False Alarm or Search and Rescue responses.

NUMBER OF INCIDENTS & ACRES BURNED BY MONTH

	SCR				NC				SER				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	0.0	1	180.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	180.0
MAY	0	0.0	87	397.3	0	0.0	39	171.3	0	0.0	0	0.0	0	0.0	126	568.6
JUNE	1	0.0	62	358.2	1	1.0	14	5.7	0	0.0	0	0.0	2	1.0	76	363.9
JULY	7	20,490.0	27	6.5	0	0.0	17	6.8	0	0.0	0	0.0	7	20,490.0	44	13.3
AUGUST	30	12,542.4	13	0.5	2	3.0	11	32.0	0	0.0	0	0.0	32	12,545.4	24	32.5
SEPTEMBER	0	0.0	5	4.3	0	0.0	1	0.0	0	0.0	1	0.0	0	0.0	7	4.3
POST-SEASON	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL	38	33,032.4	195	946.8	3	4.0	82	215.8	0	0.0	1	0.0	41	33,036.4	278	1,162.6

NOTE:

Does not include False Alarm or Search and Rescue responses.

NUMBER OF INCIDENTS AND ACRES BURNED BY SIZE CLASS

	A		B		C		D		E		F		G		FALSE ALARM	SEARCH & RESCUE	TOTAL	
	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC	NO	NO	NO	AC
Mat-Su	56	2.4	46	54.5	3	57.0	0	0.0	0	0.0	0	0.0	0	0.0	5	9	119	113.9
Copper River	24	2.2	11	24.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4	1	40	26.6
Kenai	32	0.8	13	34.6	1	14.6	2	280.0	1	300.0	0	0.0	0	0.0	13	5	67	630.0
Southwest	8	1.1	12	20.6	10	427.0	7	990.0	2	1,130.0	1	2,700.0	4	27,940.0	3	0	47	33,208.7
Fairbanks	33	2.5	10	26.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	16	0	59	29.3
Delta	18	2.2	11	17.2	5	167.0	0	0.0	0	0.0	0	0.0	0	0.0	2	2	38	186.4
Tok	5	0.1	5	4.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	0	11	4.1
Southeast	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0	1	0.0
TOTAL	177	11.3	108	182.1	19	665.6	9	1,270.0	3	1,430.0	1	2,700.0	4	27,940.0	44	17	382	34,199.0

STATE AND PRIVATE LANDS PROTECTED BY BLM
NUMBER OF INCIDENTS AND ACRES BURNED BY CAUSE

	LIGHTNING		HUMAN		TOTAL	
	NO.	AC	NO.	AC	NO.	AC
STATEWIDE	19	4,302.9	4	6.2	23	4,309.1

Note: Includes False Alarm responses.

NUMBER OF INCIDENTS AND ACRES BURNED BY PROTECTION LEVEL

	CRITICAL		FULL		MODIFIED		LIMITED		TOTAL	
	NO	AC	NO	AC	NO	AC	NO	AC	NO	AC
STATEWIDE	2	.1	6	302.3	11	190.3	10	3,816.4	29	4,309.1

Note: Includes False Alarm responses.

NET RESULT ON STATE/PRIVATE LAND

NUMBER OF INCIDENTS	339
NUMBER OF ACRES BURNED	17,851.6

NUMBER OF INCIDENTS AND ACRES BURNED BY OWNERSHIP

	SCR	NR	SER	TOTAL
STATE L&W NO. # ACRE	43 13,202.5	14 3.3	0 0.0	57 13,205.8
STATE FOREST NO. # ACRE	3 20.1	3 3.0	0 0.0	6 23.1
STATE DOT NO. # ACRE	1 0.1	0 0.0	0 0.0	1 0.1
STATE PARKS NO. # ACRE	7 12.0	2 0.2	1 0.0	10 12.2
STATE RAILROAD NO. # ACRE	3 6.7	3 4.2	0 0.0	6 10.9
STATE RFF NO. # ACRE	0 0.0	1 0.1	0 0.0	1 0.1
STATE UNIVERSITY NO. # ACRE	4 1.2	0 0.0	0 0.0	4 1.2
PRIVATE NO. # ACRE	146 107.2	79 181.9	0 0.0	225 289.1
BORO/CITY NO. # ACRE	9 180.9	0 0.0	0 0.0	9 180.9
FWS NO. # ACRE	24 2,016.2	2 1.0	0 0.0	26 2,017.2
MILITARY NO. # ACRE	1 0.0	2 20.1	0 0.0	3 20.1
NATIVE NO. # ACRE	12 401.4	1 0.0	0 0.0	13 401.4
BLM NO. # ACRE	10 396.3	0 0.0	0 0.0	10 396.3
USFS NO. # ACRE	4 111.0	0 0.0	0 0.0	4 111.0
MULTI NO. # ACRE	6 17,523.6	1 6.0	0 0.0	7 17,529.6
TOTAL NO. # ACRE	273 33,979.2	108 219.8	1 0.0	382 34,199.0

NOTE:

Includes False Alarm and Search and Rescue responses.

REGION	NUMBER OF INCIDENTS AND ACRES BURNED ON FEDERAL LANDS					
	LIGHTNING		HUMAN		TOTAL	
	NO	AC	NO	AC	NO	AC
SCD	27	14,833.2	25	593.7	52	15,426.9
NCD	2	1.0	5	21.1	7	22.1
SER	0	0.0	0	0.0	0	0.0
TOTAL	29	14,834.2	30	614.8	59	15,449.0

NOTE:

Includes False Alarm Responses.

NUMBER OF INCIDENTS AND ACRES BURNED BY CAUSE

	MAT-SU	COPPER RIVER	KENAI	SOUTHWEST	FAIRBANKS	DELTA	TOK	SOUTHEAST	TOTAL
LIGHTNING NO. # AC.	1 0.0	0 0.0	0 0.0	37 33,032.4	2 3.0	0 0.0	2 1.0	0 0.0	42 33,036.4
CAMPFIRE NO. # AC.	14 37.2	2 3.1	12 125.1	2 2.0	2 0.2	0 0.0	1 1.0	1 0.0	34 168.6
EQUIPMENT NO. # AC.	3 0.2	2 0.1	1 0.0	0 0.0	3 4.0	1 0.1	1 0.0	0 0.0	11 4.4
SLASH/DEBRIS NO. # AC.	40 53.2	6 14.4	21 306.3	0 0.0	18 12.9	18 101.7	2 0.6	0 0.0	105 489.1
SMOKING NO. # AC.	2 1.6	0 0.0	0 0.0	0 0.0	2 1.1	2 0.6	2 0.5	0 0.0	8 3.8
CHILDREN NO. # AC.	13 7.9	2 0.2	4 3.1	0 0.0	2 0.2	3 0.4	0 0.0	0 0.0	24 11.8
RAILROAD NO. # AC.	1 6.3	0 0.0	0 0.0	0 0.0	3 6.2	0 0.0	0 0.0	0 0.0	4 12.5
INCENDIARY NO. # AC.	2 0.1	2 1.6	0 0.0	0 0.0	0 0.0	1 0.1	0 0.0	0 0.0	5 1.8
FIREWORKS NO. # AC.	2 0.0	6 3.5	4 3.0	0 0.0	2 0.2	1 0.2	0 0.0	0 0.0	15 6.9
STRUCTURE NO. # AC.	1 0.1	0 0.0	8 0.7	0 0.0	3 0.5	0 0.0	3 1.0	0 0.0	15 2.3
DUMP FIRE NO. # AC.	2 0.0	8 2.3	1 0.0	1 0.1	2 0.5	0 0.0	0 0.0	0 0.0	14 2.9
MISC. NO. # AC.	38 7.3	12 1.4	16 191.8	7 174.2	20 0.5	12 83.3	0 0.0	0 0.0	105 458.5
TOTAL NO. # AC.	119 113.9	40 26.6	67 630.0	47 33,208.7	59 29.3	38 186.4	11 4.1	1 0.0	382 34,199.0

NOTE: Includes False Alarm and Search and Rescue responses.