

Report SFRC-84/01
Summary of Fires in
Everglades National Park
and Big Cypress National
Preserve, 1981



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INTRODUCTION

Fire records and summaries are proving to be more and more valuable with time. Concern about the economics of fire management and increasing use of historical fire records by resource managers in establishing and implementing state-of-the-art fire management programs are principle reasons. Documentation of fire parameters, conditions, expenditures, etc. is of great value to resource management and research personnel. Such reports are necessary to the establishment and implementation of fire management programs and to the interpretation and comparison of former and existing conditions.

Pire statistics for the 1981 calendar year for Everglades National Park and Big Cypress National Preserve are presented herein (Table 1 and 2). The 1981 fire season is the third full year of NPS fire management responsibility for Big Cypress, and the thirty-fourth year for Everglades. Everglades National Park fire records from 1948-1979 are included in Taylor (1981a) currently under revision. These records, combined with the 1978, 1979, and 1980 summaries (Taylor 1980, Taylor and Doren 1982), include all records to date for both park areas.

EVERGLADES NATIONAL PARK

The Fire Year

The 1980-1981 dry season created a severe fire control situation throughout the state (Interagency Wildfire Council Meeting, February 4, 1980). Drought conditions from the last few months of 1980 continued into 1981 through July (National Geological Survey 1981). Water levels generally remained below the mean for the first seven months of the year (Hydrology Synopsis 1981). Rainfall was generally represented by weeks of little or no rain interspersed by occasional and heavy downpours (Drought Index, Pine Island, 1981).

Lightning Strikes

In order to better understand the role of fire in South Florida and determine the potential for natural fires, information on the distribution and intensity of lightning strikes is essential. Prior to 1950 (Robertson 1953), there was a strong belief that lightning fires did not occur in the Everglades. Not until the establishment of fire lookout towers in 1951 was it accepted that lightning fires do occur. Today approximately 40 percent of all fires in Everglades are attributed to lightning (Taylor 1980, Taylor 1981, Taylor and Doren 1982).

Knowledge of the distribution of lightning strikes and lightning strike fires over time is extremely important. Particularly in

developing a fire management program with the purpose of reproducing the long-term effects of fire in the Everglades system in such a way as to perpetuate the ecosystem as naturally as possible. A parkwide aerial survey (recording each fire, location, and size) performed yearly, near the end of September, provides accurate data on lightning strike fires which occur in Everglades National Park. As shown in Figure 1, the number of lightning strike fires declines dramatically in September; chances of overlooking one are greatly reduced after this time. Future plans include installation of a Lightning Detection System (LDS). In cooperation with the U.S. Air Porce, installation of an LDS within Everglades will permit access lightning data from the area-wide system. This data would provide extremely accurate information on lightning frequency, seasonality, distribution, and intensity, which is essential to understand the natural role of fire in the Everglades system.

Twelve lightning strike fires, termed 'prescribed natural fires,' occurred in 1981. They fell into three reasonably distinct size ranges. Eight fires ranged in size from 1 to 36 acres (avg. 11.5 acres); three fires ranged from 172-450 acres (avg. 284 acres); and one fire burned 19,982 acres.

Large lightning strike fires, such as 8121-B (Resource Management Fire Records 1981), occur most frequently in June and July as shown in Figure 1. The months immediately preceding the summer rains are usually characterized by low water levels (Robertson 1953, Wade et al. 1980) and low fuel moistures (Resource Management Fire Records 1972-1981), thereby, facilitating fire spread. Reduced rainfall in July 1981 aggravated by lower than average rainfall the preceding months (Drought Index, Pine Island, 1981) exacerbated the extensiveness of fire 8121-B. Fire 8121-B burned for 14 days in both pinelands and prairies. It generally burned as well at night as during the day. Severe pine scorch (over 90% per tree) was evident over extensive areas during the initial days of head-fire activity.

Wildfires

Two significant wildfires occurred in Everglades during the 1981 season: the Parkline fire (8113-A), which burned six-thousand acres, and the South Chekika fire (8114-A), which burned eighteen-thousand acres. The fires occurred during a drought-year, dry season, and started outside of the park. Several hammocks were destroyed as a result of severe soil fires. Control was limited to fuel reduction burning using natural and/or artificial barriers as control lines. Direct attack was not feasible because of restrictions on equipment use (Fire Management Plan 1979).

The area in which these fires started - wildlands used for hunting and recreation - are typical of the land surrounding the park. When people use these areas during the dry season, fires frequently result from a variety of reasons such as arson. These fires (8113-A and

8114-A) provide excellent examples of the continued need for boundary protection burns. Close cooperation with the Florida Division of Forestry and memoranda of understanding with private land-holders have enabled us to prescribe burn these areas and/or allow fire to move across these contiguous boundary areas, greatly facilitating fire control activities.

Prescribed Fire

The 1981 prescribed fire year was the second year of a major shift in prescribed burning in Everglades from winter to summer and from various combinations of back and headfires (from year to year) to head-fires. Rationale for this shift was: (1) natural fires are caused by lightning and in most cases would have occurred in concert with the wet season, and (2) most large natural fires are head-fires (Resource Management Fire Reports, 1972-1981). From a management viewpoint it is also cheaper to burn in the summer with head-fires.

Prior to 1980, prescribed burns were done completely out of sequence to the lightning (natural) fire season (Fig. 4). The 1980-1981 change to wet season burning added more fires during this time of the year (Fig. 4). However, other burning activities account year-round distribution of fires in 1981 (Fig. 4). The February -March fires were ignited for research, farmland reclamation, and boundary protection purposes. May fires represent reclamation burns, and the October - November fires represent boundary protection burns (Fig. 4). Boundary (fuel reduction) burns primarily dependent on the water level, not the amount of rainfall. If summer water levels are too high to accomplish adequate fuel reduction these burns are delayed until water levels are appropriate. Therefore, they may appear out of sequence in relation to the natural fire season.

Pine scorch appears to increase both in percent of scorch per tree and percent of scorch per unit area when head-fires are used. Hardwoods also seem to be reduced more effectively with head-fires (Taylor 1981b). Preliminary observations seem to indicate that damage in overstory pine trees is mostly visual, while a greater percentage of small pine trees are killed. Johansen (1975) and Langdon (1971) have indicated that over 90 percent crown scorch per tree (in overstory trees) reduces growth rate the first year, but by the second year, growth rates have equalled that of trees with less than 90 percent scorch and have exceeded the growth rate of unburned control trees. Lotti et al. (1960) stated that understory hardwood control enhanced and that grasses and forbes are promoted with the use of summer head-fires. However, these studies are not directly applicable to Everglades pine forests. Therefore, it is critical that continue to monitor the vegetation in order to determine any effects our fire management program may be having on the system.

To accomplish this we hope to establish two research/monitoring projects. One project will evaluate the possible different effects on

vegetation between head-fires and backing-fires. The second will document and evaluate fire season (wet season vs. dry season) and fire return interval (3 years vs. 6 years).

Stagnation Index/Smoke Management

The difficulties in prescribed burning (Taylor and Doren 1982) that were associated with the stagnation index (Florida Division of Forestry 1976) have been resolved. A new memorandum of agreement has been approved. The essential changes relate to use of the stagnation indices as nighttime indicators only and are enforced only when population centers are liable to be impacted. These changes have greatly increased the number of permissable burn days for our summer prescribed burn program.

Muhlenbergia Research Fires

This was the third year for the long-term study of fire effects on Muhlenbergia prairies (Taylor 1980). The annual burn plots did not burn in 1980 resulting in two years of fuel accumulation for the scheduled 1981 burns. All three annual burn plots did burn with a two year rough present. The Muhlenbergia plots will continue to be burned in proper sequence and fire return interval. Data collection will be on a 3-5 year interval, dependent on funding.

Hole-in-the-Donut

Only one burn was accomplished in 1981 (8106-C). The lack of funds for personnel to collect data from the research plots (Taylor and Doren 1982) and time involved in burning were the major factors resulting in reduced burning in the Donut during 1981. The study plots will continue to be monitored as funding allows. Preliminary data show that, in areas where fine fuels are located (major fuel is Brachiaria purpurascens (Raddi) Henri.), fire is effective in reducing hardwood accumulation and in killing Schinus. Fire also appears to enhance the spread and density of the fine fuels, thereby, providing more area to be affected by burning.

SUMMARY OF EVERGLADES NATIONAL PARK

The 1981 fire year in Everglades was accentuated by extreme drought and several large fires. Information from summaries such as this and further analysis of fire behavior information (Taylor 1981a) can help predict fire occurrence problems and management needs. Everglades is attempting to develop more definitive management strategies in the fire program. The lightning detection system, research burns, updates in memoranda of agreement, and analysis of prescribed and wildfire information, should further fine tune our fire management program.

The third year of National Park Service fire control responsibility in Big Cypress National Preserve was characterized by low rainfall, low water levels, and large fires which were difficult to control. The Fire Management Plan had not yet received Regional approval, therefore, all fires were suppressed in accordance with Fire Management Guidelines.

Fire Sizes, Locations, and Causes

The period of record for fire data in Big Cypress is very short (2-3 years for most locations), however, patterns in fire locations, sizes, and causes are beginning to emerge. Taylor previously noted (Taylor 1980, Taylor and Doren 1982) that most fires are "man-caused" (89% in 1979, 75% in 1980), originate along roads, and are ignited on Sundays (41% in 1979) (Table 11). Fire patterns in 1981 followed similar trends: 86 percent of all fires were man-caused (incendiary) (Table 9 and 10) and most fires originated along well used roads (Fig. 7). Days of the week with the highest number of ignitions were Saturdays, Sundays, and Mondays rather than only Sundays, as in 1979. More lightning strike fires were reported in 1981 than in either 1979 or 1980, but this may not be an accurate portrayal of the frequency of lightning ignited fires. These data may be inaccurate because:

- The National Park Service did not assume fire control and surveillance responsibility for all areas within BICY until December 1979.
- Lightning strike surveillance flights were not performed routinely or annually (as in Everglades National Park).
- Most 1981 lightning strike reports were not confirmed by field documentation.

Monthly fire frequencies continue to reflect visitor use of the preserve as first mentioned by Taylor (1980). November, December, January, and March usually have had the greatest number of fires/month (Table 12); these are months during which hunting seasons are open. Often the fire frequency is low in February which may reflect the close of the deer hunting season and a reduction in visitor use of the area (Dayhoff, pers. comm.) Additionally, the number of fire starts, average fire size, seasonality of fire in each vegetation type (Taylor and Doren 1982), and difficulty of fire control are affected by ground water levels. As the dry season (November through May) progresses, the number of fire starts, average fire size (Table 12), and difficulty of fire control all increase. As the ground water levels decrease, fire danger increases even in the vegetation communities which characterize lower elevations (Taylor 1980), i.e., prairies, cypress prairies, and cypress domes (Gunderson 1982 a,b). Though fire

danger is governed by a complex of environmental parameters, ground water level is a good indictor of the state of the entire complex. Ground water levels, monitored at Bridge 84 and 105, illustrate the inverse relationship between water levels and average fire size (Fig. 8). Ground water levels were relatively low during the first half of 1981 and below average in May, June, and July (Sikkema 1981). Accordingly, the total number of fires and total acres burned were higher in 1981 than in either 1979 or 1980.

Turner 10

On May 8, 1981, the largest fire in National Park Service history, to date, began. The fire, named Turner 10, was a complex of fires that included fires numbered 81099A through 81117FA (Table 10). The reported 165,906 acres burned was calculated from the total area within the burn perimeter (Fig. 9). An accurate map of burned areas within the fire perimeter was not made, so actual acreages of burned areas can not be determined. However, approximately one third of that area did not burn (Taylor, pers. comm.).

Fire suppression efforts during Turner 10 were hampered by a number of environmental conditions: primarily, below average rainfall, and ground water levels, low fuel moistures, southwesterly southeasterly winds. Often fire managers in BICY are able to utilize cypress strands and cypress domes as natural fire breaks. These areas are effective fire breaks because they often contain standing water; they have sparse, discontinuous fine fuels; and the fine fuels present often have high fuel moistures. At the time of Turner 10, cypress strands and domes contained no standing water and fine fuel moistures were low, therefore, these areas could not be relied on as effective fire breaks. Prevailing winds during the fire were predominately SW to SE compounding fire control difficulties. Strands are generally oriented NE to SW, therefore, the southerly winds pushed parallel to the strands rather than directly into them, which might have impeded fire spread (Dayhoff, pers. comm.). Fires spread north along strands; then around the northern edges into adjacent unburned prairies and pinelands.

Ground water levels in 1981 were low enough to increase the difficulty of fire control but were not so low as to facilitate extensive soil fires. In April 1974, a fire burned the area southwest of the L-28 tieback canal; during this fire, soil fires were widespread resulting in high tree mortality rates in the cypress domes (Dayhoff, pers. comm.) Water levels monitored, at Bridge 84 and Bridge 105 in 1981 and 1974 illustrate the ground water levels present during each fire year (Fig. 12 and 13). Figure 12 shows ground water levels throughout each year while Figure 13 only compares the levels present during each fire (Turner 10 occurred in May 1981, the L-28 fire occurred in April and May 1974).

Impacts of Turner 10 were variable and difficult to generalize due to the large area covered by the fire, the wide range of fuel loads

encountered, and variable weather conditions occurring during the fire (the fire burned for about one month). No "official" projects were organized to document the effects of Turner 10, however, several informal reports were made:

- Large areas of pine (<u>Pinus elliottii</u> var. <u>densa</u>) mortality were reported; some of these areas had been burned by headfires. (Rochefort, Mallory, and Yates, pers. comm.).
- Infestations of <u>Ips</u> spp. and Cerambycid beetles were reported in the Bear Island area, west of Birdon Road, east of Turner River Road, and along Monument and Sandy Roads. (Patterson, Robertson, and Rochefort, pers. comm.)
- Unusually high densities of <u>Chrysopogon paucifloris</u> were observed in flower in many pinelands (Alexander, Gunderson, Holland, Robertson, and Rochefort, pers. comm.).
- 4. Although press reports of Turner 10 mentioned heavy mortality of wildlife, these would appear to have been speculative as little mortality was evident in the field. Post-fire bird populations in areas of heavily burned pineland appeared to be little changed in either species diversity or population density. Specifically, colonies of the endangered Red-cockaded Woodpecker in severely burned pine areas remained active after the fire and reproduced successfully. It appeared that most wildlife populations of BICY are able to withstand even severe fires without suffering a great deal of direct mortality. The indirect effects of wildfires on wildlife habitat may be more significant (Robertson, pers. comm.).
- 5. Reports of several possible soil fires were made during Turner 10 by National Park Service personnel on surveillance flights. However, since the areas were inaccessible by helicopter and difficult to reach by land, the sitings were not confirmed. In general, few soil fires are believed to have occurred during Turner 10.

Turner 10 fire suppression managers could have been more effective and efficient in suppression efforts if they had realized the environmental conditions within the cypress areas. Ground water levels monitored at easily accessible sites can be used to predict water levels at sites critical to fire management operations. Bydrologic stations at Bridge 84 and Bridge 105 (along U.S. 41) were monitored in conjunction with three ground water wells in "remote" sites during a Fire Ecology Research Project conducted by the South Florida Research Center. The data collected at these sites illustrate (Fig. 10) the direct relationship between the two sites and the potential for monitoring ground water levels at easily accessible sites in order to predict water levels at strategic sites. Since Big Cypress covers a large area, a wide range of burning conditions exist simultaneously. For this reason, a number of sites would have to be monitored. Figure 11 illustrates the temporal dry-down difference

between a site on the Exxon 11-Mile Road and a site approximately 30 miles west in Deep Lake strand.

Fire Costs

It is not possible to assess 1981 fire costs due to incomplete fire reports. Fifty-five out of 186 fire reports did not have costs calculated; even the \$750,000 + total cost on the Turner 10 fire was an estimate. Records of fire costs in 1979 and 1980 are also deficient.

Research Burns

The Big Cypress Fire Ecology Research burn program, directed by the South Florida Research Center, began in 1978. Three objectives of the study were:

- to determine the effects of fire frequency and season on vegetative composition.
- to determine the effects of fire frequency and season on fuel load accumulation
- to aid in development of prescription burning parameters

Research efforts were directed at pinelands, cypress prairies, and mixed grass prairies because most fires occur in these vegetation types (Figs. 14, 15, 16, 17).

Research burns were initiated in July 1980. During 1981, the initial burns were completed in all winter burn plots and annual burns in the summer and fall burn plots (Table 13). Preliminary analyses of data collected in these plots have not been completed.

SUMMARY OF BIG CYPRESS NATIONAL PRESERVE

During the 1981 fire year, more fires and more acreage burned than in either 1980 or 1979. Though BICY was still in a full suppression mode, the average fire size was larger in 1981 than in either 1979 or 1980. Due to incomplete fire records and a lack of fire behavior observations, it is difficult to determine whether this increase was due to considerably higher fire danger ratings in 1981, inefficiencies in fire management (such as slow response time, insufficient fire surveillance activities, insufficient manpower, or inexperienced personnel), or a combination of the two. Examination of BICY fire records reveals a couple of correctable deficiencies:

1. Fire Costs

Fire costs were not reported on 30 percent of the 1981 fire reports (form no. 1201). In 1979 and 1980 a large number of

fires were reported as having a total cost of \$0.00 (23% in 1979 and 18% in 1980) Since even those fires listed without any charges did have maps submitted, no assessment was made of the money required to investigate, map, and write the reports. Therefore, the yearly costs from 1979 through 1981 are underestimates. Accurate records of fire costs would aid in realistic budget planning.

2. Fire Behavior Observation

Fire behavior observations were only recorded on research burns by Everglades National Park personnel; they should be recorded on every fire. Realistic fire danger ratings can only be established from a good data base; at this time BICY does not have a sizeable data base.

Complete, accurate fire records are a valuable tool in developing and then fine tuning a Fire Management Program; with a little more effort BICY fire records could meet this standard. At the time of this writing (August 1983) BICY personnel are beginning to collect fire behavior observations on selected prescribed burns. Experience in Everglades has shown that collecting fire behavior data only on prescribed burns is not enough. In order to obtain a wide range of fire weather and fire behavior observations, data must be collected on all prescribed burns and wildfires. These corrections in fire records will provide fire managers with some of the relevant data necessary to responsibly direct the BICY Fire Management Program.

Another deficiency in the BICY Fire Management Program is Fire Research. Though a good program was initiated in 1978 by the South Florida Research Center, it was terminated in March 1982. BICY Resource Management personnel are continuing to burn the study plots on schedule but have neither the time nor expertise necessary to monitor the vegetation plots. Funding of the Fire Research Program and complete fire records are necessary for responsible fire management in Big Cypress.

ACKNOWLEDGEMENTS

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Table 1. Fire statistics for Everglades National Park, 1981

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* Outside Park Boundary

Table 2. Rainfall and acreage burned by month, 1981.

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	JAN	FEB	MAR	APR	MAY	JUN	201	AUG	SEP	OCT	NOV	DBC
Rainfall inches	.33	5.99	2.03	.10	4.93	3.12	6.05	19.76	12.98	1.74	1.84	.62
Acres Burned	175	1	584	24,336	400	299	22,378	2,518	32	1,885	9,201	33
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	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	Monthly Mean	Mean
JANUARY	.33	3.86	1,86	3.32	1.96	.91	•16	.27	1.94	1.16	1.48	80
PEBRUARY	5.99	1.36	64.	4.60	1.65	2.11	.83	90.	1.94	2.72	2.18	
MARCH	2.03	1.29	.28	2.81	.70	.20	•25	.13	1.06	1.40	1.02	2
APRIL	.10	4.33	10.65	6.31	.64	3.93	90.	5.38	.42	7.08	3.89	•
MAY	4.93	5.04	5.17	5.07	12.81	8.14	7.67	2.29	3.08	4.52	5.8	-
JUNE	3.12	14.61	5.65	8.71	8.67	8.13	9.72	8.24	8.96	8.70	8.45	15
JULY	9.05	12.37	69.9	6.31	5.53	3.94	7.16	10.71	8.91	10.05	7.77	
AUGUST	19.76	9.20	4.30	11.41	5.98	13.95	8.53	10.56	14.43	7.63	10.58	
SEPTEMBER	12,98	8.81	7.91	12,63	10.78	8.10	7.06	7.42	3.31	5.15	8.42	61
OCTOBER	1.74	4.39	5.08	9.65	3.53	2.17	5.63	4.32	3.10	5.39	4.50	
NOVEMBER	1.84	7.38	.67	1.32	2.89	4.24	1.03	2.12	.36	4.07	2.59	
DECEMBER	.62	1.34	3.73	2.58	3.58	1.19	.51	.26	2.96	96.	1.77	72

Table 3. Number and acres of incendiary fires by month for Everglades National Park, 1972-1981.

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1976 1975 19 No. Acres No. Acres No	1976 1975 19 No. Acres No. Acres No	1975 19 No. Acres No. 1 2 3 3,506 3 2 2 2 2 2 2 2 2 1 2 2 2 2 2 2 3,689	1975 19 No. Acres No. 1 2 3,506 3 2 3,689 4 2 2 2 2 2 2 2 2 1 1 2 1 - 1	No. 4 4 4 1 1 1 4	No. 4 4 4 1 1 1 4	1974 No. Acres 1 200 2 151 3 4,472 4 44,253 2 11,112	Acres 11 11 6,071 1,687 101	
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Table 4. Number and acres of lightning strike fires by month for Everglades National Park, 1972-1981.

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Table 5. Number and acres of prescribed burns by month for Everglades National Park, 1972-1981.

	No.	1981 No. Acres	No.	1980 No. Acres	No.	1979 Acres	No.	1978 No. Acres	No.	1977 Acres	No.	1976 No. Acres	No.	1975 No. Acres	No.	1974 Acres	8	1973 No. Acres	No	1972 No. Acres
JAN	. 6	174	-	143	~	589	- 1		10	1,422	4	1,911	S	3,981	9	2,707	12	2,417	-1	.1
FEB	- 1	į	. 01	3,423	H	216	- 3	į	4	720	7	186	**	576	7	2,699	00	989	C/I	88
MAR	4	583	m	3,003	0	530	14	787	Н	28	175	13,643	7	2,631	4	9,125	00	6,955	.03	199
APR	_ 1	1		310	н	40		*	-	27	.1	,	7	173	~	28	10	77	(H	45
MAY			m	831	- 0	1	- 1	1	-0	9	н	560	-1	э	٦	10	60	S.	-	13
JUN	,	Ť	. 1	κ	1	i		į.	Ē.	į.	10	1£3	-	1	1	Ţ	01	4	-01	1
JUL	4	2,729	Н	1	i.	t	- 6	i	Ť	Ě	ŧ	Ŧ	н	43	1	į.	i.	¢.	1	10
AUG	24	2,518	7	45	- 1	1	- 9	. 1	1	1	- I	,	r	t	- 1	í	ंलं	20	С	18
SEP	- 1	ı		1,031	н	38	.1	i	- 1	ä	ī	û	н	503		1	ī	ï	04	26
OCT	m	1,880	£.	ť	4	1,378	- 1	1	1	į	-1	640	m	299	7	20	in)	371	9	152
NON	4	9,201	н	909	m	1,012	-	09	H	4	in	2,075	4	1,129	80	399	9	189	4	1,590
DEC	-1	33	-30	1	7	802	*	795	н	3,877	4	1,278	m	775	t	Ĭ.	m	371	'n	1,325

Table 6. Total numbers and acres of fires by month for Everglades National Park, 1972-1981.

		1981		1980		1979		1978		1977		1976		1975		1974		1973		1972
	No.	Acres	No.	No. Acres	No.	No. Acres	No.	No. Acres	No.	Acres	No.	No. Acres	No.	No. Acres	No.	Acres	No.	Acres	No.	No. Acres
JAN	47	175	+	143	m	604	н	н	7	1,422	in	1,919	10	3,981	1	1,907	14	2,428	ø	3,626
FEB	н	-	2	3,423	H	216	1	ť	4	720	~	186	. △	576	13	2,850	o	695	2	16,023
MAR	10	584	9	3,531	CN.	530	н	787	64	29	12	13,643	-	33,137	7	13,597	12	11,145	0	3,207
APR	4	6,335	N	445	H	40	1	i	m	34	1	į	σ	3,862	1	44,281	6	6,148	-	4.5
MAY	1		m	831	7	n	1	1	Н	9	m	598	m	1,955	4	11,275	00	1,742	-	166
SUN	in	299	m	1,440	н	٦	m	873	1	ŧ	į.	ĵ	14	6,485	9	5,558	ю	1	н	128
JOE	10	22,278	7	206	4	688	t	Ė	2	365	-	0	ω	737	1	Ť	7	530	9	457
AUG	2	2,518	16	320	00	1,566	4	137	1	н	2	45.5	m	351	4	2,479	9	410	m	132
SEP	N	35	m	2,227	t	1	m	73		,	9	1	Н.	503	1	220	d	Н	œ	418
DOCT	in	1,885	1.1	1:	4	1,378	1	1	0	i	1	640	00	498	N	20	9	453	9	152
NOV	4	9,201	N	874	m	1,012	1	99	-	4	in	2,075	4	1,129	10	1,129	7	290	7	1,890
DEC	н	33	ı	s, t	2	802	4	795	Н	3,877	4	1,278	m	775	1	i	10	427	10	1,325

Table 7. Average number and average acres of fires by month, 1972-1981.

	Incendiary Avg. No. Avg	Hary Acres	Lightni Avg. No.	Lightning Strike . No. Avg. Acres	Pres	Prescribed lo. Avg. Acres	Avg. No.	Total Avg. Acres
JAN	.80	386.2			3.3	1,334.4	4.1	1,720.6
FEB	06.	1,609.6	. 1	/(0)	3.4	859.4	4.3	2,469
MAR	2.4	4,523.8	ı	ij.	4.4	3,795.2	8.9	8,319
APR	1.6	6,035.5	7.	13.5	1.9	70.0	3.6	950'9
MAY	6.	12,808	7.	229.3	6.	147.5	2.5	1,657.6
JUN	4.	12.1	3.1	1,466.3	7	7.	3.6	1,478.5
JUL		t:	3.6	2,247.7	9.	277.3	4.2	2,525
AUG	.2	.7	4.4	534.6	5.	261.3	5.1	799.6
SEP	i		1.4	187.9	5	159.8	1.9	347.7
5	Ť		œ.	28.6	2.4	474.0	3.2	502.6
NOV	5.	112.4	۴.	30.0	3.7	1,626.5	4.5	1,626.5
DEC	1.	4.5	.7	1.1	2.3	925.9	2.5	931.5

Table 8. Individual fires for Everglades National Park, 1981.

(LatLong.) Cause Unit Acres Cost 25024'-80031' Research 2b 161 112.00 00 25024'-80038' Research 2b 6 1,521.00 00 25022'-80026' Research 3 43 299.00 00 25024'-80026' Reserribed 2b 55 3,832.00 00 25024'-80020' Prescribed 2b 55 3,832.00 00 25024'-80020' Prescribed 2b 1 20.00 00 25024'-80020' Incendiary 2b 10 50.00 00 25024'-8003' Incendiary 1 115 70.00 00 25024'-8003' Incendiary 2b 10 00 00 25030'-8003' Incendiary 2b 18,000 27,000 00 25030'-8004' Indptning 2b 10,000 00 00 25030'-8004' Indptning 2c 2c 2c	Fire	Location		Fire			
25024'-80031' Research 2b 161 112.00 00 25022'-80028' Research 3 43 299.00 00 25023'-80026' Research 3 43 299.00 00 25023'-80026' Research 3 43 299.00 00 25024'-80020' Prescribed 1 43 1493.00 00 25024'-80042' Prescribed 2b 1 2b 25 25 3,852.00 00 25024'-80037' Prescribed 2b 1 25 20 20 25 25 3.852.00 00 25 25 25 80037' Prescribed 2b 1 25 20 20 20 25 25 25 26 25 25 25 26 25 25 25 25 25 26 25 25 25 25 25 25 25 25 25 25 25 25 25	Number	(LatLong.)	Cause	Unit	Acres	Cost	Date
25022'-80026' Researched 2b 43 1,521.00 00 25022'-80026' Researched 3 43 299.00 00 25022'-80026' Prescribed 1 43 1,493.00 00 25024'-80040' Prescribed 2b 555 3,852.00 00 25021'-80032' Incendiary 2b 10 20.00 00 25021'-80039' Incendiary 3 1 15 20.00 00 25032'-81003' Incendiary 1 15 20.00 00 25032'-81003' Incendiary 2b 18,000b 22,868.26 04 25030'-81003' Incendiary 2b 18,000b 22,868.26 04 25030'-81003' Incendiary 2b 18,000b 22,866.26 04 25030'-81003' Incendiary 2b 18,000b 22,866.26 04 25030'-81003' Incendiary 2b 18,000b 22,866.26 04 25030'-81003' Incendiary 2b 18,000b 22,866.00 04 25030'-81003' Incendiary 2b 19,000 25,860.00 05 25030'-81003' Incendiary 2b 25030'-81003' Incen	101	18003	Research	25	161	112.00	01-08-81
25°23'-80°26' Research 3 443 1,499.00 00 25°29'.00 00 25°29'.00 01 25°29'.00 00 25°29'.00 00 25°29'.00 00 00 25°29'.00 00 00 25°29'.00 00 00 00 25°29'.00 00 00 00 00 25°29'.00 00 00 00 00 00 00 00 00 00 00 00 00	8102-c	4		2b	9	1,521.00	01-15-81
25°28'-81°10' Prescribed 1 43 1,493.00 00 25°24'-80°40' Prescribed 2 5 5 3,832.00 00 25°24'-80°32' Incendiary 2 5 1 2 20.00 00 25°21'-80°32' Incendiary 2 5 1 2 20.00 00 25°21'-80°32' Incendiary 2 1 2 20.00 00 25°21'-80°34' Incendiary 1 1 115 20.00 00 25°32'-81°00' Incendiary 1 1 115 70.00 00 25°32'-81°00' Incendiary 2 1 10.00 00 25°32'-81°00' Incendiary 2 2 18°,000² 27,968.26 00 25°30'-80°00' Incendiary 2 2 2 18°,000² 27,968.26 00 25°30'-80°00' Incendiary 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8103-d	4	Research	m	43	299.00	01-20-81
25°24'-80°40' Prescribed 3 55 53,852.00 00 25°21'-80°42' Prescribed 2b 1 525 3,852.00 00 25°21'-80°32' Incendiary 2b 1 50.00 00 25°21-80°37' Prescribed 2b 10 531.00 00 25°21'-80°37' Prescribed 2b 10 531.00 00 25°22'-80°37' Prescribed 2b 10 50.00 00 25°23'-80°37' Prescribed 2b 10 50.00 00 25°32'-80°37' Prescribed 2b 115 70.00 00 25°32'-80°37' Incendiary 2b 6,000a 27,968.26 00 25°32'-80°30' Incendiary 2b 6,000a 27,968.26 00 25°32'-80°30' Incendiary 2b 18,000b 22,846.00 00 25°32'-80°40' Incendiary 2b 18,000b 22,846.00 00 25°33'-80°40' Incendiary 2b 55°33'-80°40' Incendiary 2b 19,039 5,569.00 00 00 00 00 00 00 00 00 00 00 00 00	8104-c	u.	Prescribed	-1	43	1,493.00	03-02-81
25021'-80042' Prescribed 2b 525 3,852.00 00 2504'-80032' Incendiary 2b 1 20.00 00 2504'-80032' Incendiary 2b 1 50.00 00 25021'-80037' Prescribed 2b 10 20.00 00 25021'-80036' Incendiary 1 115 70.00 00 25034'-81003' Incendiary 2b 6,000 22.00 70.00 00 25031'-81000' Incendiary 2b 18,000b 22,846.00 00 25031'-81001' Incendiary 2b 18,000b 22,846.00 00 25031'-81004' Inghring 2b 5 100.00 00 25031'-81004' Inghring 2b 2b 20.00 00 25031'-81004' Inghring 2b 19,039 5,569.00 00 25021'-81004' Inghring 2b 1772 1,726.11 00 25021'-81004' Inghring 2c 12 20.00 00 25021'-81004' Inghring 2c 12 20.00 00 25021'-81004' Inghring 2c 12 20.00 00 00 25021'-81004' Inghring 2c 12 20.00 00 00 00 00 00 00 00 00 00 00 00 00	8105-e	-8004	Prescribed	6	S	838.00	03-04-81
25°24'80°32' Incendiary 2b 1 20.00 001 25°24'80°32' Incendiary 3 1 50.00 002 25°21'-80°34' Prescribed 2b 10 10 531.00 002 25°23'-80°34' Incendiary 1 1 115 70.00 002 25°34'-81°00' Incendiary 1 1 115 70.00 004 25°34'-81°00' Incendiary 2b 18,000b 22,846.00 004 25°34'-80°44' Incendiary 2b 2b 18,000b 22,846.00 004 25°34'-80°44' Inghring 2b 2b 19,039 5,569.00 004 25°34'-80°46' Inghring 2b 19,039 5,569.00 007 25°34'-80°46' Inghring 2b 19,039 5,569.00 007 25°34'-80°36' Rescribed 3 1,907 2,136.00 007 25°34'-80°36' Rescribed 3 2c 12°36'-80°36' Rescribed 3 2c 12°36'-80°3	8106-0	2	Prescribed	25	525	3,852.00	03-06-81
25021'-80039' Incendiary 3 1 50.00 00 25029'-80037' Prescribed 2b 10 531.00 00 25029'-80037' Incendiary 1 120 00 00 25034'-81003' Incendiary 1 220 70.00 04 25034'-81003' Incendiary 2b 6,000a 27,968.26 04 25030'-80039' Incendiary 2b 18,000b 22,846.00 05 25034'-80044' Lightning 2b 50.00 05 25034'-80040' Lightning 2b 50.00 05 25034'-80040' Lightning 2b 2854 2854 2856 00 05 25037'-80040' Lightning 2b 2854 2856 00 05 25037'-80040' Lightning 2b 19,039 5,569.00 07 25022'-80046' Lightning 2b 19,039 5,600.00 07 25025'-80038' Research 2b 12 419.00 07 25025'-80047' Lightning 2c 18 800.00 07 2504'-80047' Lightning 2c 18 800.00 07 25040'-80047' Lightning 2c 18 800.00 07 25040'-80040' Lightning 2c 18 800.00 07 25040'-8004	8107-a	25024'-80032'	Incendiary	2b	н	20.00	01-17-81
25025'-80037' Prescribed 2b 10 531.00 03 25023'-80036' Incendiary 1 115 70.00 04 25032'-81001' Incendiary 1 1220 70.00 04 25032'-81001' Incendiary 1 1220 70.00 04 25032'-81001' Incendiary 2b 18,000b 27,968.26 04 25030'-80040' Incendiary 2b 18,000b 22,846.00 05 25030'-80040' Incendiary 2b 18,000b 22,846.00 05 25030'-80040' Incendiary 2b 18,000b 22,846.00 05 25037'-80040' Lightning 2c 3 100.00 06 25037'-80040' Lightning 2c 3 100.00 06 25037'-80040' Lightning 2c 3 100.00 06 25037'-80020' Lightning 2c 3 100.00 06 25037'-80020' Lightning 2b 19,039 5,569.00 07 25022'-80020' Lightning 2b 19,039 5,569.00 07 25021'-80046' Lightning 2b 19,039 5,569.00 07 25021'-80046' Lightning 2b 19,039 5,569.00 07 25021'-80046' Research 2a 2a 2a 425.00 07 25021'-80046' Research 2a 2a 2a 419.00 07 25040'-80047' Lightning 2c 36 3 1,907 1,2011 07 25040'-80047' Lightning 2c 36 36 80.00 07 25040'-80047' Lightning 2c 36 36 80.00 07 25040'-80047' Lightning 2c 36 450 160.00 07 25040'-80047' Lightning 2c 36 25040'-80052' Lightning 2c 36 25040'-80047' Lightning 2c 36 25040'-80052' Lightning 2c 36 25040'-80050' Lightning 2c 36 25040'-	8108-a	25021'-80039'	Incendiary	6	н	50.00	03-19-81
25023'-80036' Incendiary 1 115 70.00 04 25034'-81003' Incendiary 1 12 220 70.00 04 25032'-81000' Incendiary 2	8109-d	25025'-80037'	Prescribed	2b	10	531.00	03-26-81
25934'-81003' Incendiary I 115 70.00 04 25932'-81000' Incendiary 2b 6,000a 27,968.26 04 25930'-80033' Incendiary 2b 18,000b 22,846.00 04 25930'-80040' Incendiary 2b 18,000b 22,846.00 04 25930'-80040' Incendiary 2b 18,000b 22,846.00 05 25934'-80040' Incendiary 2b 100.00 06 25937'-80040' Inghtning 2b 3 100.00 06 25937'-80040' Inghtning 2b 19,039 5,569.00 07 25937'-80020' Inghtning 2b 19,039 5,569.00 07 25920'-80020' Inghtning 2b 19,039 5,569.00 07 25921'-80046' Inghtning 2b 19,039 5,569.00 07 25921'-80046' Inghtning 2b 19,039 5,569.00 07 25921'-80046' Inghtning 2b 1,907 2,136.00 07 25921'-80036' Inghtning 2b 1,907 2,136.00 07 25921'-80036' Inghtning 2b 1,907 2,136.00 07 25921'-80036' Inghtning 2c 1 1 80.00 07 25921'-80036' Inghtning 2c 1 86.00 07 25921'-80036' Inghtning 2c 1 86.00 07 25921'-80036' Inghtning 2c 1 1 80.00 07 25921'-80036' Inghtning 2c 36 160.00 07 25921'-80036' Inghtning 2c 36 160.00 07 25921'-80036' Inghtning 2c 36 160.00 07	8110-c	25023'-80036'		3	-	20.00	02-01-81
25032'-81000' Incendiary 1 220 70.00 04 25030'-80033' Incendiary 2b 6,000a 27,968.26 04 25030'-80039' Incendiary 2a 400° 22,846.00 05 25030'-80040' Incendiary 2a 400° 22,846.00 06 25031'-80040' Lightning 2b 100.00 06 25031'-80040' Lightning 2a 3 100.00 06 25031'-80040' Lightning 2b 19,039 5,569.00 07 25029'-80020' Lightning 2b 19,039 5,569.00 07 25020'-80046' Lightning 2a 229 425.00 07 25020'-80038' Research 3 772 1,726.11 07 25020'-80047' Lightning 2c 18 80.00 07 25040'-80047' Lightning 2c 18 80.00 07 25040'-80047' Lightning 2c 36 80.00 10 07 25040'-80047' Lightning 2c 36 80.00 10 07 25040'-80047' Lightning 2c 18 80.00 10 07 25040'-80047' Lightning 2c 18 80.00 10 07 25040'-80047' Lightning 2c 18 80.00 10 07 25040'-80052' Lightning 2c 18 80.00 10 07 25040'	8111-c	25034,-81003	Incendiary	н	115	70.00	04-04-81
25030'-80033' Incendiary 2b 6,000a 27,968.26 04 25030'-80040' Incendiary 2b 18,000b 22,846.00 04 25040'-80039' Incendiary 2a 400c 875.00 05 25040'-80044' Lightning 2c 3 100.00 06 25037'-8004c' Lightning 2c 3 100.00 06 25030'-80020' Lightning 2b 19,039 5,569.00 07 25022'-80046' Lightning 2b 19,039 5,569.00 07 25021'-80046' Lightning 2b 19,039 5,569.00 07 25021'-80036' Lightning 2a 229 425.00 07 25021'-80036' Research 2b 12 419.00 07 25021'-80036' Research 2b 12 80.00 07 25025'-80036' Lightning 2c 11 80.00 07 25025'-80036' Lightning 2c 11 80.00 07 25021'-80036' Research 2b 12 80.00 07 25021'-80047' Lightning 2c 11 80.00 07 25040'-80047' Lightning 2c 11 80.00 07 25040'-80047' Lightning 2c 12 80.00 107 25040'-80052' Lightni	8112-c	25032'-81000'	Incendiary	н	220	70.00	04-04-81
25°30'-80°40' Incendiary 2a 18,000 ^b 22,846.00 25°40'-80°39' Incendiary 2a 400° 875.00 25°34'-80°44' Lightning 2b 5 100.00 25°37'-80°42' Lightning 2c 3 100.00 25°37'-80°42' Lightning 2c 3 100.00 25°37'-80°42' Lightning 2c	*8113-a	25030,-80033,	Incendiary	2p	6,000ª	27,968.26	04-06-81
25°40'-80°39' Incendiary 2a 400° 875.00 25°34'-80°44' Lightning 3 5 100.00 25°37'-80°42' Lightning 2a 3 100.00 25°37'-80°46' Lightning 2a 3 100.00 25°37'-80°46' Lightning 2b 19,039 5,569.00 25°29'-80°20' Lightning 2b 19,039 5,569.00 25°22'-80°45' Lightning 2b 1 1,907 2,136.00 25°22'-80°46' Lightning 2b 1 1,907 2,136.00 25°22'-80°46' Lightning 2b 1 1,907 2,136.00 25°22'-80°46' Lightning 2a 229 425.00 25°24'-80°36' Research 3 38 541.00 25°25'-80°36' Research 2b 12 419.00 25°24'-80°36' Lightning 2c 1 80.00 25°40'-80°47' Lightning 2c 1 80.00 25°40'-80°47' Lightning 2c 1 12 80.00 25°40'-80°47' Lightning 2c 1 1 80.00	*8114-a	2503080040.	Incendiary	2b	18,000b	22,846.00	04-12-81
8116-b 25034'-80044' Lightning 3 5 100.00 8117-b 25037'-80040' Lightning 2c 3 100.00 8118-b 25037'-80042' Lightning 2c 3 100.00 8118-b 25036'-80046' Lightning 2b 285d 236.08 8120-b 25029'-80020' Lightning 2b 19,039 5,569.00 8121-b 25020'-80046' Lightning 2b 19,039 5,569.00 8122-b 25020'-80046' Lightning 2b 1,907 2,136.00 8123-c 25020'-80046' Research 2b 1,907 2,136.00 8124-b 25020'-80046' Research 2a 3 38 541.00 8125-c 25021'-80036' Research 2a 3 38 541.00 8126-c 25021'-80036' Research 2b 12 800.00 8128-b 25040'-80047' Lightning 2c 1 800.00 8128-b 25040'-80047' Lightning 2c 36 80.00 8130-b 25040'-80047' Lightning 2c 36 80.00 8130-b 25040'-80052' Lightning 2c 36 80.00 8130-b 25040'-80052' Lightning 2c 36 80.00 8130-b 25040'-80052' Lightning 2c 36 80.00	*8115-a	25040'-80039'	Incendiary	23	400c	875.00	05-17-81
### ### ### ### ### ### ### ### ### ##	8116-b	25034,-80044	Lightning	m	2	100.00	06-12-81
8118-b 25037'-80042' Lightning 2c 3 100.00 8119-b 25036'-80046' Lightning 2a 3 100.00 8119-b 25029'-80020' Lightning 2b 285d 285d 8121-b 25020'-80020' Lightning 2b 19,039 5,569.00 8121-b 25021'-80046' Lightning 2a 229 5,569.00 8123-c 25020'-80046' Lightning 2a 229 425.00 8124-b 25024'-80036' Prescribed 3 38 541.00 8125-c 25024'-80036' Prescribed 3 772 1,726.11 8126-c 25023'-80036' Research 2b 12 419.00 8126-c 25020'-80047' Lightning 2c 3 80.00 8129-b 25040'-80047' Lightning 2c 36 80.00 8130-b 25040'-80052' Lightning 2c 36 450 160.00	8117-b	25037'-80040'	Lightning	2b	9	100.00	18-61-90
8119-b 25036'-80046' Lightning 2a 3 100.00 25029'-80020' Lightning 2b 2b 285d 236.08 8121-b 25040'-80020' Lightning 2b 19,039 5,569.00 8122-b 25020'-80044' Rescribed 3 1,907 2,136.00 8124-b 25020'-80046' Lightning 2a 2,29 425.00 8125-c 25024'-80039' Rescribed 3 38 541.00 8126-c 25023'-80036' Research 2b 12 419.00 8126-c 25023'-80036' Research 2b 12 80.00 8128-b 25040'-80047' Lightning 2c 36 450 160.00 8129-b 25040'-80052' Lightning 2c 36 100.00	8118-b	25037'-80042'	Lightning	20	6	100.00	18-61-90
8120-b 25°29'-80°20' Lightning 2b 2b 25°54 236.08 8121-b 25°22'-80°45' Lightning 2b 19,039 5,569.00 10.00 25°22'-80°45' Lightning 2b 1,907 2,136.00 25°20'-80°46' Prescribed 3 1,907 2,136.00 425.00 8123-c 25°24'-80°39' Prescribed 3 38 541.00 8126-c 25°22'-80°36' Prescribed 3 772 1,726.11 8126-c 25°25'-80°36' Prescribed 3 772 1,726.11 8128-b 25°40'-80°47' Lightning 2c 16°00 10.00 8129-b 25°40'-80°47' Lightning 2c 36°00 10.00	8119-b	25036,-80046	Lightning	2a	3	100.00	18-61-90
25°22'-80°45' Lightning 2b 19,039 5,569.00 25°22'-80°45' Lightning 2b 1,907 10.00 25°22'-80°44' Prescribed 3 1,907 2,136.00 25°24'-80°36' Lightning 2a 229 425.00 25°23'-80°36' Prescribed 3 772 1,726.11 25°23'-80°36' Research 2b 12 419.00 25°40'-80°47' Lightning 2c 1 80.00 25°40'-80°47' Lightning 2c 160.00 25°40'-80°52' Lightning 2c 160.00	8120-b		Lightning	2b	285d	236.08	06-28-81
25022'-80045' Lightning 2b 1,907 2,136.00 25020'-80046' Prescribed 3 1,907 2,136.00 25024'-80046' Lightning 2a 229 425.00 25024'-80039' Prescribed 3 772 1,726.11 25023'-80036' Research 2b 12 419.00 25040'-80047' Lightning 2c 1 80.00 25040'-80052' Lightning 2c 160.00			Lightning	2p	19,039	5,569.00	07-05-81
25°20'-80°44' Prescribed 3 1,907 2,136.00 25°30'-80°46' Lightning 2a 229 425.00 25°24'-80°39' Prescribed 3 772 1,726.11 25°23'-80°36' Prescribed 3 772 1,726.11 25°25'-80°38' Research 2b 12 419.00 25°40'-80°47' Lightning 2c 1 80.00 25°40'-80°52' Lightning 2c 450 160.00	8122-b	25022'-80045'	Lightning	2b	1	10.00	07-10-81
25024'-80046' Lightning 2a 229 425.00 25024'-80039' Prescribed 3 772 1,726.11 25023'-80036' Research 2b 12 419.00 25040'-80047' Lightning 2c 1 80.00 25040'-80052' Lightning 2c 160.00	8123-c	250201-80044	Prescribed	е	1,907	2,136.00	07-11-81
25°24'-80°39' Prescribed 3 38 541.00 25°23'-80°36' Prescribed 3 772 1,726.11 25°25'-80°38' Research 2b 12 419.00 25°40'-80°47' Lightning 2c 1 80.00 25°40'-80°47' Lightning 2c 36 80.00 25°40'-80°52' Lightning 2c 450 160.00	8124-b	25030,-80046	Lightning	2a	229	425.00	07-18-81
126-c 25°23'-80°36' Prescribed 3 772 1,726.11 127-d 25°25'-80°38' Research 2b 12 419.00 128-b 25°40'-80°47' Lightning 2c 3c 36 80.00 130-b 25°40'-80°52' Lightning 2c 450 160.00	8125-c		Prescribed	E		541.00	07-23-81
127-d 25°25'-80°38' Research 2b 12 419.00 128-b 25°40'-80°47' Lightning 2c 36 80.00 129-b 25°40'-80°47' Lightning 2c 36 80.00 130-b 25°40'-80°52' Lightning 2c 450 160.00	8126-c	25023,-80036	Prescribed	e	772	1,726.11	07-27-81
128-b 25040'-80047' Lightning 2c 1 80.00 129-b 25040'-80047' Lightning 2c 36 80.00 130-b 25040'-80052' Lightning 2c 450 160.00	8127-d	25025 -80038	Research	2b	12	419.00	07-28-81
129-b 25040'-80047' Lightning 2c 36 80.00 130-b 25040'-80052' Lightning 2c 450 160.00	8128-b	250401-800471	Lightning	2c	1	80.00	07-26-81
130-b 25040'-80052' Lightning 2c 450 160.00	8129-b	5040 8004	Lightning	20	36	80.00	07-26-81
	3	5040,-8005	Lightning	2c	450	160.00	07-26-81

Table 8 continued,

Date	08-06-81	08-06-81	09-28-81	09-28-81	10-17-81	10-15-81	10-19-81	10-10-81	10-20-83	11-03-81	11-07-81	11-25-81	11-25-81	12-09-81
Cost	3,350.00	3,611.00	96.48	96.48	1,126,79	459.91	143.73	138.54	1.871.02	439.12	2,571.19	4.924.21	604.00	419.27
Acres	944	1,574	14	21	518	443	2	m	919	83	4,092	4,017	1,009	33
Fire Mgmt Unit	3	m	Zb	1	m	т	М	Н	m	E	m	2c	2b	2p
Cause	Prescribed	Prescribed	Lightning	Lightning	Prescribed	Prescribed	Lightning	Lightning	Prescribed	Prescribed	Prescribed	Prescribed	Prescribed	Research
Location (LatLong.)	25024'-80044'	25024"-80042"	25027*-80042*	25025'-81003'	25023'-80036'	250221-800361	25030,-81009,	25036'-81010'	25024'-80041'	25022 -80036	250201-800501	25040*-80057*	25027'-80039'	25024 80037
Fire	8131-c	8132-c	8133-b	8134-b	8135-c	8136-c	8137-b	8138-b	8139-c	8140-c	8141-c	8142-c	8143-c	8144-d

Portions, and or all of each of these fires occurred outside the park boundary. 70 acres in the park

8,239 acres in the park 9

0.0 acres in the park 172 acres in the park

Table 9. Comparison of fire causes 1979, 1980, and 1981 in Big Cypress National Preserve. (% of total fires)

	Man-caused (Incendiary)	Pasture Burns	Research Burns	Lightning
1979	89%	78	·#:	4%
1980	758	51	6%	2%
1981	86%	14	69	6%

Table 10. Individual fires for Big Cypress National Preserve, 1981.

Location T-R-S	Cause	Acres	Cost (\$)	Date
	January			
55S-33E-19, 25, 30, 31	Incendiary	280	300.00	1-3
	Incendiary	70	225.00	1-4
50S-30E-1, 2, 11, 12	Incendiary	1,200	345.00	1-5
52S-34E-7, 18	Incendiary	140	250.00	1-5
528-34E-2, 3, 11	Incendiary	140	225.00	1-5
53S-35E-19	Incendiary	o	225.00	1-4
52S-34E-12, 13	Incendiary	105	225.00	1-4
52S-32E-3	Incendiary	125	75.00	1-5
51S-34E-18	Incendiary	15	75.00	1-5
53S-34E-8	Incendiary	10	75.00	1-5
53S-34E-25	Incendiary	80	100.00	1-5
53S-33E-6	Incendiary	12	25.00	1-5
49S-30E-25	Incendiary	20	20.00	1-5
52S-30E-24	Incendiary	90	300.60	1-5
55S-32E-1, 12	Incendiary	320	240.91	1-11
55S-33E-6, 7				
51S-33E-22, 23	Incendiary	28	158.00	1-11
525-32E-3	Incendiary	20	158.00	1-11
53S-31E-9	Incendiary	2	10.00	1-8
52S-31E-19	Incendiary	09	614.87	1-8
538-32E-15, 16, 21, 22	Incendiary	910	3,860.72	1-10
49S-30E-13	Incendiary	3,450	742.91	1-9
50S-30E-34	False Alarm		78.00	1-10
51S-30E-2	False Alarm		78.00	1-10
54S-33E-19	False Alarm		78.00	1-10
52S-31E-7	Incendiary	120	589.00	1-13
53S-33E-15	Vehicle	1	22.40	1-14
535-27F-9	Toogsaline	120	159.76	1-16

Date 91-1 1-16 1-17 1-17 61-1 1-23 1-24 1-26 1-26 1-31 1-25 2-10 2-19 2-14 2-14 2-20 2-4 2-5 2-8 2-8 2-4 2-4 Cost (\$) 97.50 78.00 58.50 71.79 865.598 90.00 219.19 234.00 15.00 0.00 276.00 212.00 281.00 347.00 310.50 18.00 1,098.31 101.00 239.00 2,410 1,760 150 Acres 240 180 100 9 220 320 February Pasture Burn False Alarm False Alarm False Alarm Incendiary Research Cause 51S-31E-14, 23, 24, 26 51S-30E-26, 27, 34, 23, 518-32E-27, 34, 35 52S-30E-1, 2, 12 14, 538-33E-16, 17 19S-30E-9, 10 518-32E-1, 12 53S-30E-2, 11 Location 538-32E-13, 51S-31E-12, T-R-S 518-33E-6, 54S-34E-21 53S-33E-18 52S-30E-35 538-34E-5, 52S-30E-31 51S-32E-18 52S-32E-10 52S-30E-24 51S-30E-28 54S-34E-29 50S-30E-15 51S-34E-23 51S-30E-10 535-348-6 50S-31E-6 52S-30E-4 53S-30E-2 Table 10 continued. 81028FA 81048FA 81049FA 81034A Number 81029A 81047A 81030A 81031A 81032A 81033C 81035A 81036A 81037A 81038A 810394 81041A 81042D 81050A 81040A 81043A 81044A 81045A 31046A Pire

Table 10 continued.

Cause Acres Cost (\$) Date Incendiary 225 579.45 2-20 Research 80 445.00 2-25 Research 40 185.00 2-25 Research 40 185.00 3-5 Research 40 274.16 3-5 Research 40 274.16 3-5 Research 40 274.16 3-5 Incendiary 60 432.00 3-8 Incendiary 65 597.00 3-11 Incendiary 160 189.00 3-14	Acres Cost (\$) 225 579.45 80 445.00 70 603.00 40 185.00 40 274.16 0.00 60 432.00 65 597.00 115 297.00 160 189.00 7,615 891.00	Acres Cost (\$) 225 579.45 80 445.00 70 603.00 40 185.00 40 274.16 60 432.00 65 597.00 115 297.00 1160 189.00 7,615 891.00 1,630 945.00 1 66.00 220 324.00 820 675.00 65 211.00 65 211.00 65 211.00
arch 40 603.00 603.00 603.00 603.00 603.00 60 60 60 60 60 65 597.00 160 160 189.00	arch 40	Incendiary 225 579.45 Research 80 445.00 Research 70 603.00 Research 40 185.00 Research 40 274.16 Research 60 432.00 Incendiary 155 597.00 Incendiary 160 189.00 Incendiary 1,615 891.00 Incendiary 1,630 945.00 Incendiary 1,630 945.00 Incendiary 220 324.00 Incendiary 65 211.00 Incendiary 220 675.00 Incendiary 220 675.00 Incendiary 65 211.00 Incendiary 65 211.00
arch 40 603.00 403.00 603.00 603.00 603.00 60 60 60 60 65 597.00 115 297.00 160 189.00	arch 40 603.00 40 185.00 40 274.16 0.00 60 432.00 65 597.00 115 297.00 160 189.00 7,615 891.00	Research 80 445.00 Research 70 603.00 Research 40 185.00 Research 40 274.16 False Alarm 60 274.16 False Alarm 60 432.00 Incendiary 115 297.00 Incendiary 160 189.00 Incendiary 7,615 891.00 False Alarm 1,630 945.00 Incendiary 1,630 945.00 Incendiary 220 324.00 Incendiary 820 65.00 Incendiary 65 211.00 Incendiary 65 2207.00
40 185.00 40 274.16 40 274.16 60 432.00 65 597.00 115 297.00	40 185.00 40 274.16 40 274.16 60 432.00 65 597.00 115 297.00 160 189.00 7,615 891.00	Research 70 603.00 Research 40 185.00 Research 40 274.16 False Alarm 60 432.00 Incendiary 65 597.00 Incendiary 115 297.00 Incendiary 7,615 891.00 Incendiary 1,630 945.00 False Alarm 1,630 945.00 Incendiary 220 324.00 Incendiary 220 324.00 Incendiary 65 211.00 Incendiary 65 2207.00
40 185.00 40 274.16 60 432.00 65 597.00 115 297.00	40 185.00 40 274.16 0.00 60 432.00 65 597.00 115 297.00 160 189.00 7,615 891.00	Research 40 185.00 Research 40 274.16 False Alarm 0.00 0.00 Incendiary 65 597.00 Incendiary 115 297.00 Incendiary 160 189.00 Incendiary 7,615 891.00 Incendiary 1,630 945.00 Incendiary 1,630 945.00 Incendiary 220 324.00 Incendiary 220 324.00 Incendiary 65.00 675.00 Incendiary 65 211.00 Incendiary 2,900 5,207.00
40 185.00 40 274.16 0.00 60 432.00 65 597.00 115 297.00 160 189.00	40 185.00 40 274.16 0.00 60 432.00 65 597.00 115 297.00 160 189.00 7,615 891.00	Research 40 185.00 False Alarm 0.00 0.00 Incendiary 60 432.00 Incendiary 115 297.00 Incendiary 160 189.00 Incendiary 7,615 891.00 Incendiary 1,630 945.00 Incendiary 1 66.00 Incendiary 220 324.00 Incendiary 65 211.00 Incendiary 65 211.00 Incendiary 65 211.00 Incendiary 2,900 5,207.00
40 274.16 60 0.00 65 432.00 65 597.00 115 297.00 160 189.00	40 274.16 60 0.00 65 432.00 65 597.00 115 297.00 160 189.00 7,615 891.00	Research 40 274.16 Palse Alarm 0.00 Incendiary 65 597.00 Incendiary 115 297.00 Incendiary 160 189.00 Incendiary 7,615 891.00 Incendiary 1,630 945.00 False Alarm 1 66.00 Incendiary 1 66.00 Incendiary 220 324.00 Incendiary 65 211.00 Incendiary 65 211.00 Incendiary 2,900 5,207.00
60 432.00 65 432.00 115 597.00 160 189.00	60 432.00 65 432.00 115 597.00 160 189.00 7,615 891.00	Palse Alarm 60 432.00 Incendiary 65 597.00 Incendiary 115 297.00 Incendiary 160 189.00 Incendiary 7,615 891.00 Incendiary 1,630 945.00 False Alarm 1,630 945.00 Incendiary 220 324.00 Incendiary 65 211.00 Incendiary 65 211.00 Incendiary 65 211.00
60 432.00 65 597.00 115 297.00 160 189.00	60 432.00 65 597.00 115 297.00 160 189.00 7,615 891.00	Incendiary 60 432.00 Incendiary 65 597.00 Incendiary 160 189.00 Incendiary 7,615 891.00 Incendiary 220 845.00 Incendiary 1,630 189.00 Incendiary 220 324.00 Incendiary 820 675.00 Incendiary 65 211.00 Incendiary 65 211.00
115 297.00 160 189.00	65 597.00 115 297.00 160 189.00 7,615 891.00	Incendiary 65 597.00 Incendiary 115 297.00 Incendiary 7,615 891.00 Incendiary 1,630 945.00 False Alarm 1,630 945.00 Incendiary 220 324.00 Incendiary 820 675.00 Incendiary 65 211.00 Incendiary 65 211.00
115 297.00 160 189.00	115 297.00 160 189.00 7,615 891.00	Incendiary 115 297.00 Incendiary 160 189.00 Incendiary 7,615 891.00 False Alarm 1,630 945.00 Incendiary 220 189.00 Incendiary 820 675.00 Incendiary 65 211.00 Incendiary 65 211.00
160 189.00	160 189.00 7,615 891.00	Incendiary 160 189.00 Incendiary 7,615 891.00 Incendiary 2 96.56 Incendiary 1,630 945.00 Incendiary 220 324.00 Incendiary 820 675.00 Incendiary 65 211.00 Incendiary 65 211.00
	7,615 891.00	Incendiary 7,615 891.00 Incendiary 2 96.56 Incendiary 1,630 945.00 Incendiary 220 324.00 Incendiary 820 675.00 Incendiary 65 211.00 Incendiary 65 211.00
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		Incendiary 2 96.56 Incendiary 1,630 945.00 False Alarm 189.00 Incendiary 220 324.00 Incendiary 820 675.00 Incendiary 65 211.00 Incendiary 2,900 5,207.00
The second secon	The state of the s	Incendiary 1,630 945.00 False Alarm 189.00 Incendiary 220 324.00 Incendiary 65 211.00 Incendiary 65 211.00
2 96.56	2 96.56	False Alarm 189.00 Incendiary 220 324.00 Incendiary 820 675.00 Incendiary 65 211.00 Incendiary 2,900 5,207.00
2 96.56 1,630 945.00	2 96.56 1,630 945.00	Incendiary 220 324.00 Incendiary 820 675.00 Incendiary 65 211.00 Incendiary 2,900 5,207.00
2 96.56 1,630 945.00 189.00	2 96.56 1,630 945.00 189.00	Incendiary 220 324.00 Incendiary 65 211.00 Incendiary 2,900 5,207.00
2 96.56 1,630 945.00 189.00	2 96.56 1,630 945.00 189.00	Incendiary 820 675.00 Incendiary 65 211.00 Incendiary 2,900 5,207.00
Incendiary 2 96.56 Incendiary 1,630 945.00 False Alarm 189.00 Incendiary 1 66.00 Incendiary 220 324.00	Incendiary 2 96.56 Incendiary 1,630 945.00 False Alarm 189.00 Incendiary 1 66.00 Incendiary 220 324.00	65 211.00 2,900 5,207.00
Incendiary 2 96.56 Incendiary 1,630 945.00 False Alarm 189.00 Incendiary 220 324.00 Incendiary 820 675.00	Incendiary 2 96.56 Incendiary 1,630 945.00 False Alarm 189.00 Incendiary 220 324.00 Incendiary 820 675.00	2,900 5,207.00
Incendiary 2 96.56 Incendiary 1,630 945.00 False Alarm 189.00 Incendiary 220 324.00 Incendiary 820 675.00 Incendiary 65 211.00	Incendiary 2 96.56 Incendiary 1,630 945.00 False Alarm 189.00 Incendiary 220 324.00 Incendiary 820 675.00 Incendiary 65 211.00	
Incendiary 2 96.56 Incendiary 1,630 945.00 False Alarm 189.00 Incendiary 220 324.00 Incendiary 820 675.00 Incendiary 65 211.00	Incendiary 2 96.56 Incendiary 1,630 945.00 False Alarm 189.00 Incendiary 220 324.00 Incendiary 820 675.00 Incendiary 65 211.00	

Table 10 continued.

Number Location							
Cause Acres Cost (\$)							
535-32E-14 Incendiary 3,250 1,996.00 536-32E-14 Incendiary 3,250 1,996.00 548-34E-2, 3, 10, 11 Incendiary 3,250 1,996.00 348-34E-2, 3, 10, 11 Incendiary 10,970 16,276.00 548-34E-2, 36 Incendiary 10,970 16,276.00 506-31E-1 Incendiary 10,970 16,276.00 518-30E-1 Incendiary 10,970 16,276.00 518-31E-1 Palse Alarm 10,970 16,276.00 538-32E-14 Palse Alarm 10,11 5.00 538-32E-14 Incendiary 1 10,00 538-32E-14 Incendiary 1 15,94 538-32E-14 Incendiary 1 10,00 538-32E-14 Incendiary 1 10,00 538-32E-14 Incen	Fire	Location					
535-32E-14 538-34E-2, 3, 10, 11 538-34E-2, 3, 10, 11 538-32E-14 538-33E-26 538-33E-26 538-33E-26 538-33E-26 538-33E-26 538-33E-26 538-33E-26 538-33E-26 538-33E-26 538-33E-36 53	Number	T-R-S		Cause	Acres		Date
535-34E-2, 3, 10, 11 Incendiary 3,250 1,996.00 548-34E-26, 27, 28, 29, 32, 33, 34, 35, 36 Incendiary 4 64.37 505-30E-3 505-30E-3 516-30E-11, 12, 14, 15 516-31E-6 516-31E-6 516-31E-6 516-31E-7, 8, 16-20 528-32E-14 538-32E-14 False Alarm 538-32E-14 False Alarm 538-32E-14 False Alarm 70, 49 538-32E-14 Incendiary 1 5,04 538-32E-14 Incendiary 1 1 10,117 538-32E-14 Incendiary 1 1 10,00 538-32E-14 Incendiary 1 1 10,00 538-32E-14 Incendiary 2 1 10,00 538-32E-14 Incendiary 1 1 10,00 538-32E-14 Incendiary 2 0 65.00 538-34E-26 538-34E-26 538-34E-26 538-34E-26 538-34E-26 538-34E-29 Incendiary 20 538-34E-36 538-34E-36 Incendiary 1 203.00 538-34E-36 538-34E-36 538-34E-36 538-34E-36 False Alarm 70, 49 74, 63 74, 63 74, 63	81070A	53S-32E-14		Incendiary	н	184.00	3-28
545-34E-26, 27, 28, 29, 56 Incendiary 4 64.37 505-30E-3 505-30E-3 505-30E-11, 12, 14, 15 Incendiary 10,970 16,276.00 515-30E-11, 12, 14, 15 Incendiary 10,970 16,276.00 515-30E-11, 12, 14, 15 Incendiary 10,970 16,276.00 535-32E-14 False Alarm 14.14 535-32E-14 False Alarm 14.14 535-32E-14 Incendiary 1 1 5,04 535-32E-14 Incendiary 1 1 5,94 535-32E-14 Incendiary 1 1 2,00 535-32E-14 Incendiary 1 1 2,94 535-32E-26 Incendiary 20 65.00 535-32E-26 Incendiary 20 65.00 535-34E-26 Incendiary 1 203.00 535-34E-26 Incendiary 1 203.00 535-34E-36 Incendiary 1 245 3,085.70 535-34E-36 Incendiary 1 2 255.68	81071A	538-34E-2, 3	10, 11	Incendiary	3,250	1,996.00	3-28
535-32E-14 505-30E-3 505-30E-3 505-30E-1 515-31E-6 515-31E-7, 8, 16-20 515-31E-14 False Alarm 535-32E-14 False Alarm 535-32E-14 False Alarm 535-32E-14 False Alarm 70.49 535-31E-12 False Alarm 70.49 535-34E-26 False Alarm 70.00 525-30E-25 False Alarm 70.00 525-30E-25 False Alarm 70.49 535-34E-26 False Alarm 70.49 535-34E-26 False Alarm 70.00 525-30E-15 False Alarm 70.00 525-30E-15 False Alarm 70.00 525-30E-15 False Alarm 70.64 74.63		54S-34E-26,	, 28,				
505-30E-3 Incendiary 10,970 16,276.00 505-31E-6 518-30E-11, 12, 14, 15 12.91 12.91 21-36 515-31E-7, 8, 16-20 False Alarm 12.91 29-32 False Alarm 12.91 535-32E-14 False Alarm 14.14 535-32E-14 False Alarm 14.14 535-32E-14 Incendiary 1 101.17 535-32E-14 Incendiary 1 15.94 535-32E-14 Incendiary 1 10.00 535-32E-14 Incendiary 2 50.00 545-34E-6 Incendiary 2 89.00 535-34E-15 Incendiary 2 89.00 535-34E-20 Incendiary 2 3,085.70 535-34E-16 Incendiary 1 20.00 535-34E-16 Incendiary 1 28.15 535-34E-16 Incendiary 1 2 535	81072A	100		Incendiary	4	64.37	3-28
505-31E-6 515-30E-11, 12, 14, 15 515-31E-7, 8, 16-20 515-31E-7, 8, 16-20 529-32 535-32E-14 535-32E-15 535-32E-15 535-32E-25 535-32E-35 535-32E-35 535-33E-36 535-33E-37 535-33E-37 535-33E-36 535-33E-37 555-33E-37 555-33E-	81073A	50S-30E-3		Incendiary	10,970	16,276.00	3-28
515-30E-11, 12, 14, 15 21-36 21-36 515-31E-7, 8, 16-20 29-32 29-32 535-32E-14 535-3		50S-31E-6					
21-36 218-7, 8, 16-20 29-32 29-32 29-32 29-32 29-32 29-32 29-32 29-32 29-32 29-32 29-32 29-32 29-32 29-32 29-32 29-32 29-32 29-32 29-32 20-32		51S-30E-11,	12, 14, 15				
515-31E-7, 8, 16-20 22-32 1 538-32E-14							
29-32 15.91 15.9-32 1		-					
538-32E-14 Palse Alarm 12.91 538-32E-14 Palse Alarm 14.14 538-32E-14 Incendiary 1 5.00 538-32E-14 Incendiary 1 10.1.17 538-32E-14 Incendiary 1 15.94 538-32E-14 Incendiary 1 15.94 538-32E-14 Incendiary 2 50.00 548-34E-6 Incendiary 2 50.00 538-30E-2 Incendiary 2 65.00 538-34E-2 Incendiary 2 65.00 538-34E-2 Incendiary 2 2 2 538-34E-2 Incendiary 2 2 538-34E-3 Incendiary 1 203.00 538-34E-3 Incendiary 2 2 538-34E-3 Incendiary 1 98.44 508-30E-15 Incendiary 2 259.68 538-34E-17 Incendiary 1 98.45 538-34E-17 Incendiary 1 74.63 538-36-36 Incendiary 1 74.63 548-36 Incendiary 1 74.63 548-		29-32					
S3S-32E-14 Palse Alarm 14.14 S3S-32E-14 Palse Alarm 70.49 S3S-32E-14 Incendiary 1 5.00 S3S-32E-14 Incendiary 1 101.17 S3S-32E-14 Incendiary 1 15.94 S3S-32E-14 Incendiary 1 15.94 S3S-32E-14 Incendiary 1 15.94 S3S-32E-14 Incendiary 2 2 20.00 S4S-36E-25 Incendiary 2 2 28.00 S3S-36E-25 Incendiary 2 2 28.00 S3S-34E-26 Incendiary 2 2 28.15 S3S-34E-36 Incendiary 1 203.00 S3S-34E-36 Incendiary 1 28.15 S3S-34E-36 Incendiary 1 28.15 S3S-34E-15 Incendiary 1 98.44 S3S-34E-15 Incendiary 1 98.44 S3S-34E-15 Incendiary 2 259.68 S3S-34E-17 Incendiary 1 74.63 S3S-36E-15 Incendiary 1 74.63 S3S-36E-17 Incendiary 1 74.63 S3S-36E-18 Incendiary 1 74.63 S4S-36E-18 Incendiary 1 74.64 S4S-36E-18 Incendiary 1 74.64 S4S-36E-18 Incendiary 1 74.64 S4S-36E-18 Incendiary 1 74	81074FA	53S-32E-14		False Alarm		12.91	3-28
\$38-32E-14 Palse Alarm 70.49 \$38-34E-23 Incendiary 1 5.00 \$38-34E-24 Incendiary 1 101.17 \$38-32E-14 Incendiary 1 15.94 \$38-32E-14 Incendiary 1 15.94 \$38-32E-14 Incendiary 1 10.00 \$155-32E-14 Incendiary 2 50.00 \$165-36E-14 Incendiary 2 50.00 \$165-36E-14 Incendiary 1 140.00 \$165-36E-15 Incendiary 12 181.00 \$165-36E-25 Incendiary 20 65.00 \$165-36E-25 Incendiary 20 65.00 \$165-36E-25 Incendiary 20 65.00 \$165-36E-25 Incendiary 20 65.00 \$165-36E-15 Incendiary 1 203.00 \$166-10 Incendiary 1 98.44 \$166-20 Incendiary 1 96.44 \$166-30E-15 Incendiary </td <td>81075FA</td> <td>53S-32E-14</td> <td></td> <td>False Alarm</td> <td></td> <td>14.14</td> <td>3-28</td>	81075FA	53S-32E-14		False Alarm		14.14	3-28
538-34E-23 Incendiary 1 5.00 538-32E-14 Incendiary 1 101.17 538-32E-14 Incendiary 1 15.94 538-32E-14 Incendiary 1 15.94 538-32E-14 Incendiary 2 595.47 548-34E-6 Incendiary 2 50.00 538-34E-6 Incendiary 12 181.00 528-30E-25 Incendiary 20 65.00 495-30E-29 Incendiary 20 65.00 538-34E-20 Incendiary 1 203.00 538-34E-20 Incendiary 1 203.00 538-34E-29 Incendiary 1 245 3,085.70 538-34E-36 Incendiary 1 28.15 538-34E-36 Incendiary 1 28.15 538-34E-36 Incendiary 1 98.44 538-34E-17 Incendiary 1 98.44 528-36E-15 Incendiary 1 74.63	81076FA	53S-32E-14		False Alarm		70.49	3-28
538-32E-14 Incendiary 1 101.17 538-32E-14 Incendiary 1 15.94 538-32E-14 Incendiary 1 15.94 538-32E-14 Incendiary 2 595.47 548-34E-6 Incendiary 2 50.00 538-34E-25 Incendiary 12 181.00 495-30E-25 Incendiary 5 89.00 538-34E-21 False Alarm 2 65.00 538-34E-26 Incendiary 2 65.00 538-34E-29 Incendiary 1 203.00 538-34E-36 Incendiary 1 28.15 538-34E-12 Incendiary 1 28.15 538-34E-12 Incendiary 1 98.44 538-34E-15 Incendiary 1 98.44 538-34E-17 Incendiary 1 74.63 528-30E-8 1 74.63	81077A	538-34E-23		Incendiary	rí	5.00	3-29
53S-32E-14 Incendiary 1 595.47 53S-32E-14 Incendiary 1 15.94 53S-32E-14 Incendiary 1 10.00 54S-34E-6 Incendiary 2 50.00 52S-30E-29, 29 Incendiary 20 65.00 53S-34E-21 False Alarm 0.00 53S-34E-20 Incendiary 20 65.00 53S-34E-20 Incendiary 20 65.00 53S-34E-36 Incendiary 245 3,085.70 53S-34E-36 Incendiary 245 3,085.70 53S-34E-36 Incendiary 1 203.00 53S-34E-36 Incendiary 245 3,085.70 53S-34E-36 Incendiary 245 3,085.70 53S-34E-36 Incendiary 1 28.15 53S-34E-17 Incendiary 1 74.63	81078A	53S-32E-14		Incendiary	-	101.17	3-29
53S-32E-14 Incendiary 1 15.94 53S-32E-14 Incendiary 2 50.00 54S-34E-6 Incendiary 2 50.00 53S-30E-2 Incendiary 3 140.00 49S-30E-29 Incendiary 2 89.00 49S-34E-21 Incendiary 2 89.00 53S-34E-20 False Alarm 0.00 53S-34E-29 Incendiary 245 3,085.70 53S-34E-36 Incendiary 1 28.15 53S-34E-15 Incendiary 1 98.44 53S-34E-15 Incendiary 1 259.68 53S-34E-17 Incendiary 1 74.63	81079A	53S-32E-14		Incendiary	1	595.47	3-29
535-32E-14 Incendiary 1 10.00 545-34E-6 Incendiary 2 50.00 525-30E-25 Incendiary 12 140.00 525-30E-25 Incendiary 20 65.00 535-34E-21 False Alarm 1 203.00 535-34E-29, 30 Incendiary 245 3,085.70 535-34E-36 Incendiary 245 3,085.70 535-34E-36 Incendiary 1 98.44 555-36E-17 Incendiary 2 2259.68 535-34E-17 Incendiary 2 2259.68 535-34E-17 Incendiary 1 74.63	81080A	53S-32E-14		Incendiary	н	15.94	3-29
545-34E-6 Incendiary 2 50.00 535-30E-1 Incendiary 3 140.00 525-30E-25 Incendiary 12 181.00 535-30E-29, 29 Incendiary 20 65.00 535-34E-20 Incendiary 20 65.00 535-34E-29, 30 Incendiary 245 3,085.70 545-34E-36 Incendiary 245 3,085.70 535-34E-36 Incendiary 1 28.15 535-34E-36 Incendiary 1 98.44 535-34E-17 Incendiary 2 259.68 535-34E-17 Incendiary 1 74.63	81081A	53S-32E-14		Incendiary	н	10.00	3-29
52S-30E-1 52S-30E-25 49S-30E-25 49S-30E-29, 29 Incendiary 12 181.00 53S-34E-21	81082A	54S-34E-6		Incendiary	64	20.00	3-30
52S-30E-25 Incendiary 12 181.00 49S-30E-29, 29 Incendiary 20 65.00 A 53S-34E-26 False Alarm 0.00 53S-34E-29, 30 Incendiary 1 203.00 54S-34E-29, 30 Incendiary 1 28.15 53S-34E-36 Incendiary 1 98.44 A 50S-30E-15 Incendiary 1 98.44 53S-34E-17 Incendiary 2 259.68 53S-34E-17 Incendiary 1 74.63	81083A	53S-30E-1		Incendiary	8	140.00	3-30
495-30E-29, 29 Incendiary 5 89.00 535-34E-21 Incendiary 20 65.00 535-34E-26 False Alarm 0.00 545-34E-29, 30 Incendiary 245 3,085.70 535-34E-36 Incendiary 1 28.15 535-34E-36 Incendiary 1 98.44 535-34E-17 Incendiary 2 259.68 535-34E-17 Incendiary 1 74.63	81084A	528-30E-25		Incendiary	12	181.00	3-30
535-34E-21 Incendiary 20 65.00 A 538-34E-26 False Alarm 0.00 538-34E-29, 30 Incendiary 245 3,085.70 538-34E-36 Incendiary 1 28.15 538-34E-36 Incendiary 1 98.44 538-34E-17 Incendiary 2 259.68 538-34E-17 Incendiary 1 74.63	81085A	49S-30E-29,	29	Incendiary	5	89.00	3-31
53S-34E-26 53S-34E-29, 30 Incendiary 53S-34E-29, 30 Incendiary 53S-34E-36 Incendiary 53S-34E-36 Incendiary 50S-30E-15 Incendiary 53S-34E-17 Incendiary 52S-30E-36 Incendiary 52S-30E-36 Incendiary 52S-30E-36 Incendiary 52S-30E-36	81086A	53S-34E-21		Incendiary	20	65.00	4-5
53S-31E-12 Incendiary 1 203.00 54S-34E-29, 30 Incendiary 245 3,085.70 53S-34E-36 Incendiary 1 28.15 53S-34E-36 Incendiary 1 98.44 False Alarm 0.00 53S-34E-17 Incendiary 2 259.68 52S-30E-36 Incendiary 1 74.63	81087FA	53S-34E-26		False Alarm		0.00	4-6
545-34E-29, 30 Incendiary 245 3,085.70 535-34E-36 Incendiary 1 28.15 535-34E-36 Incendiary 1 98.44 535-34E-17 Incendiary 2 259.68 525-30E-36 Incendiary 1 74.63	81088A	53S-31E-12		Incendiary	T	203.00	4-8
53S-34E-36 Incendiary 1 28.15 53S-34E-36 Incendiary 1 98.44 A 50S-30E-15 Palse Alarm 0.00 53S-34E-17 Incendiary 2 259.68 52S-30E-36 Incendiary 1 74.63	81089A	54S-34E-29,	30	Incendiary	245	3,085.70	4-10
53S-34E-36 Incendiary 1 98.44 50S-30E-15 Palse Alarm 0.00 53S-34E-17 Incendiary 2 259.68 52S-30E-36 Incendiary 1 74.63	81090A	538-34E-36		Incendiary	н	28.15	4-12
50S-30E-15 False Alarm 0.00 53S-34E-17 Incendiary 2 259.68 52S-30E-36 Incendiary 1 74.63	81091A	53S-34E-36		Incendiary	1	98.44	4-12
53S-34E-17 Incendiary 2 259.68 528-30E-36 Incendiary 1 74.63	81092FA	50S-30E-15		False Alarm		00.0	4-17
528-30E-36 Incendiary 1 74.63	81093A	53S-34E-17		Incendiary	2	259.68	4-18
	81094A	52S-30E-36		Incendiary	н		4-22

Table 10 continued.

Date	4-27 4-28 4-30	5-15			5-11 5-14 5-17	71-3
Cost (\$)	385.75 605.00 64.83	18.83 750,000.00 (included w/81099A)				E
Acres	40 E 4	163,280 (included w/81099A)				-
Cause	Incendiary Incendiary Incendiary	Incendiary Incendiary Incendiary			Incendiary Incendiary Incendiary	Incendiary
Location T-R-S	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO	54S-34E-23, 24 52S-30E-32 50S-31E-1-5, 8-16, 21 28, 32-36 50S-32E-1-6 50S-33E-4-8, 17, 18 19, 27, 31, 32, 34, 35 51S-31E-1-36	51S-32E-1-36 51S-33E-2-4, 9-12 14-22, 25-36 51S-34E-2-5, 7-11, 13-22, 28-32 51S-30E-11-14, 33-35 52S-30E-1-4, 6-12, 14-16,	52S-31E-1-6, 8-17, 19-36 52S-32E-1-35 52S-33-E-1-9, 18 53S-31E-1-6, 8-12 53S-32E-2-11, 18	•	52S-30E-13
Fire	81095A 81096A 81097A	81098A 81099A 81100A			81101A 81102A 81103A	81104A

Table 10 continued.

) Date		ed 5-22	auc-	are:	anc.	are.	
Cost (\$)	(included w/81099A)						
Acres	7	y 2,250		4 10		7 150	
Cause	Incendlary	Incendiary		Incendiary	0.25		Incendiary
Location T-R-S	53S-34E-18	8, 9, 10	11, 12, 13, 14, 15, 16, 17	535-348-29		528-30E-18	528-29E-35, 36, 528-30E-30, 31
Fire	81106A	81107A 81108A		SILOSA	81111A	81112A	81113A

Table 10 continued.

Date		7-11	7-21	7-27	7-29		8-4	8-4	8-7	8-7	8-7		9-24			10-11	10-11	10-11	10-11	10-13
Cost (\$)		76.66	12.09	424.60	109.64		812.50		٠	*	*		(*			*	*	*		
Acres		1 0	20	10	1	-PI	н	-1	99	20	30	ler.	-		ы	120	20	50	40	110
Cause	July	Lightning	Lightning	Lightning	Incendiary	August	Research	False Alarm	Lightning	Lightning	Lightning	September	Research		October	Incendiary	Incendiary	Incendiary	Incendiary	Incendiary
Location T-R-S		538-32E-15		52S-30E-22	54S-35E-8		535-34E-7	51S-34E-27, 28	55S-35E-18, 19	558-358-19	54S-34E-33		51S-30E-22	the same of the same		53S-34E-27, 28	52S-33E-12, 13	53S-32E-21	51S-34E-26, 35	50S-30E-17, 20
Fire		81126A	81128A	81129A	81130A		811310	81132FA	81133A	81134A	81135A		81136D			81137A	81138A	81139A	81140A	81141A

*Not available. Costs were not reported on DI-1201 submitted to the Regional Office.

Table 10 continued.

Date		11-13	11-14	11-14	11-15	11-15	11-15	11-15	11-15	11-16	11-18	11-19	11-19	11-20	11-21	11-25	11-25	11-26	11-29		12-6	12-6	12-7
Cost (\$)		٠	•		•			•	•		•	•	*	•		*		*			*	*	*,5
Acres	Der	unable to determine	150	unable to determine	09	1	70	70	80		09	1	7	135	120	1	1	1	20	er	570	110	-
Cause	November	Incendiary	Incendiary	Incendiary	Incendiary	Incendiary	Incendiary	Incendiary	Incendiary	False Alarm	Incendiary	Incendiary	Incendiary	Incendiary	Incendiary	Incendiary	Incendiary	Incendiary	Incendiary	December	Incendiary	Incendiary	Incendiary
Location T-R-S		52S-32E-?	50S-33E-25, 26, 35	508-338-7	51S-34E-26	52S-34E-9	53S-32E-16, 17, 20	53S-32E-16, 17, 20	53S-32E-9, 16	50S-30E-2	515-348-35	545-338-24	50S-30E-4	53S-33E-20, 21	53S-31E-21	54S-33E-23	545-358-15	53S-32E-12	528-35E-32		53S-32E-21	558-32E-1	53S-30E-1
Fire		81142A	81143A	81144A	81145A	81146A	81147A	81148A	81149A	81150FA	81151A	81152A	81153A	81154A	81155A	81156A	81157A	81158A	81159A		81160A	81161A	81162A

*Not available. Costs were not reported on DI-1201 submitted to the Regional Office.

Table 10 continued.

Date	12-10	12-10	12-12	12-12	12-13	12-14	12-15	12-16	13-11	12-10	12-19	12-10	12 10	12-13	67-97	12.10	67-77	17-77	13-30	13-20	12-30	13-22	12-22	77-77	77-77	17-72	97-71
Cost (\$)	*				•			*						•										•	•	•	
Acres	460	ı	06	110	20	11	40	20	1	10	40	20	240	200		2	1.070		40	11			00	8	43	1 200	000
Cause	Incendiary	Research	Incendiary	Incendiary	Incendiary	Incendiary	**************************************	Incendiary	Incendiary	100000000000000000000000000000000000000	Incendiary	Incendiary	Research	Research	Incendiary	Incendiary	Incendiare	Cattle Permit									
Location T-R-S	2000	m	538-348-30	52S-33E-13	515-34E-23	54S-34E-21	528-34E-2	52S-34E-25	548-358-17	53S-34E-29	51S-34E-25, 26, 35, 36	52S-35E-20	518-34E-15, 16, 22			52S-34E-8, 9	52S-34E-9, 10, 15,	N.F	53S-34E-29, 30	50S-30E-34	51S-30E-21, 22	53S-34E-7	50S-30E-1	50S-30E-13	52S-30E-20, 21	49S-30E-26, 27, 34	
Fire	81163A	81164D	81165A	81166A	81167A	81168A	81169A	81170A	81171A	81172A	81173A	81174A	81175A	81176A		811778	81178A		81179A	81180A	811810	81182D	81183A	81184A	81185A	81186A	400000

*Not available. Costs were not reported on DI-1201 submitted to the Regional Office.

Table 11. Fire starts by day of the week.

Day of the Week

Year	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1979	41%	7%	12%	12%	7%	12%	7%
1980	16%	16%	14%	10%	15%	10%	19%
1981	25%	16%	10%	11%	9%	12%	16%

Table 12. Number of fires, number of acres burned, and average fire size in 1979, 1980 and 1981 (BICY).

		Fires		1	Acres Bu	rned	Averag	e Fire	Size (Ac)
Month	1979	1980	1981	1979	1980	1981	1979	1980	1981
<u>Jan</u>	15	4	34	4227	257	10273	282	64	302
Feb	5	6	13	736	546	3419	92	182	263
Mar	20	30	27	9236	8967	27982	462	300	1036
Apr	6	3	10	5801	445	311	967	_223	31
May	6	3	16	177	340	165906	31	113	10369
Jun	1	6	_11	4	3905	3029	4	651	275
Jul	2	6	5	130	1265	472	65	_211	94
Aug	0	5	4	0	405	107		_81	27
Sep	0	0	1	0	0	_1	-	_=	_ 1
0ct	3		5	28	781	370	9	156	_ 74
Nov	9	34	17	1067	1127	701	119	33	41
Dec	_14	40	27	2728	9928	4869	195	245	180
Totals	84	138	170	24140	27906	217440			

Table 13. Research burns completed in 1981.

Fire Number	Date	Plot Name	Age Rough	Comments
Mixed Grass F	rairie			
81042D	2-4-81	Winter Annual & Three Year	unknown	burned
81136D	9-24-81	Summer Annual	1 year	would not burn
81181D	12-21-81	Pall Annual	1 year	would not burn
Cypress Prair	ie			
81054D	3-5-81	Winter Three Year	unknown	burned
81055D	3-5-81 .	Winter Annual	unknown	burned
81131D	8-4-81	Summer Annual	1 year	would not burn
81182D	12-22-81	Pall Annual	1 year	would not burn
Pineland				
81052D	2-25-81	Winter Annual	unknown	burned
81053D	2-25-81	Winter Three Year	unknown	burned
81127A	7-14-81	Summer Annual	1 year	*burned
81164D	12-10-81	Fall Annual	1 year	would not burn

^{*}burned by an incendiary fire

— mean ACRES LIGHTNING STRIKE FIRES '72-'81 (x 1000)

— □ mean NUMBER LIGHTNING STRIKE FIRES '72-'81

— mean RAINFALL (inches) NP67

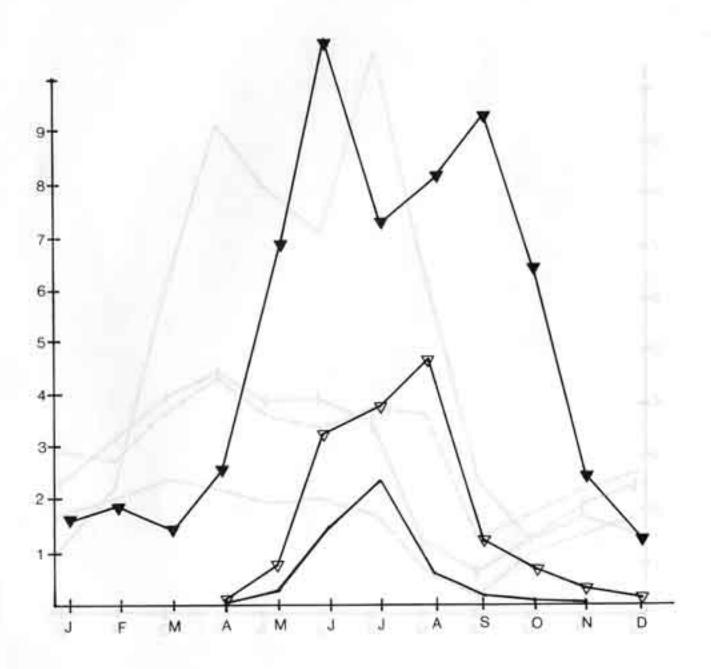
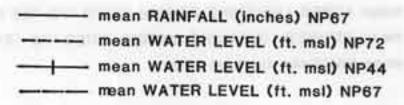


Figure 1. Mean monthly acreage of lightning strike fires 1972-1981, mean monthly number of lightning strike fires 1972-1981, and mean monthly rainfall in Everglades National Park.



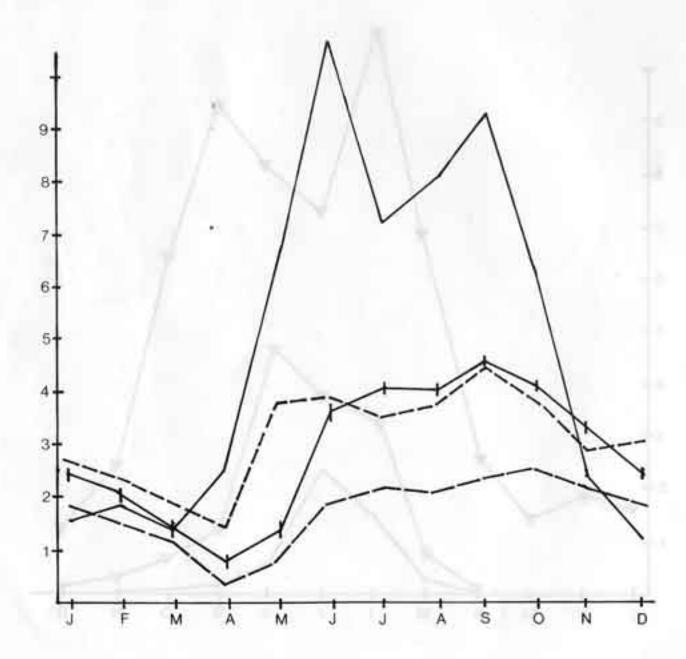


Figure 2. Mean monthly rainfall and water level at three hydrologic stations during 1981 in Everglades National Park.

mean RAINFALL (inches) NP67

1981 MONTHLY RAINFALL (inches) NP67

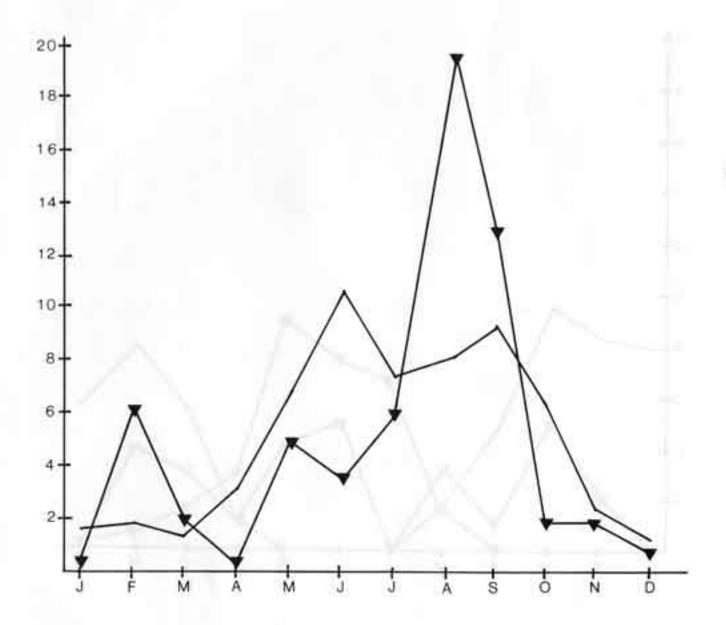


Figure 3. Mean monthly rainfall and 1981 monthly rainfall at hydrologic station NP67, Everglades National Park.

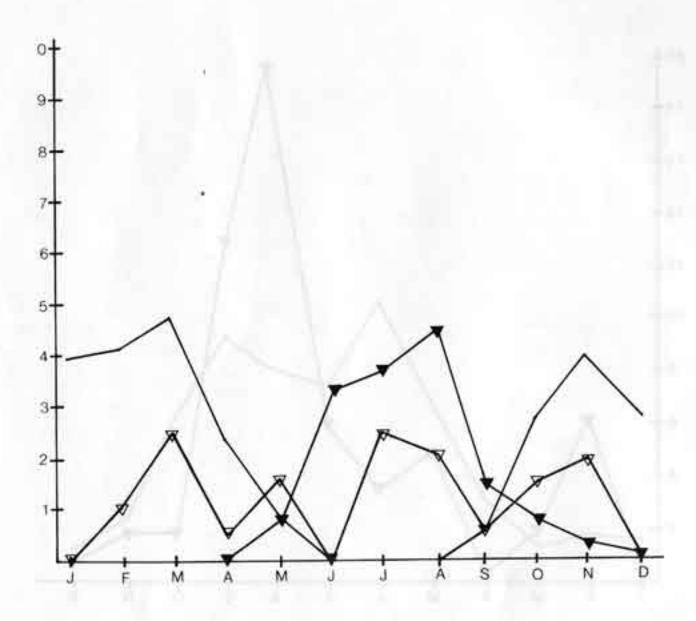


Figure 4. Mean number of prescribed fires 1972-1979, mean number of prescribed fires 1980-1981, and mean number of lightning strike fires 1972-1981 per month in Everglades National Park.

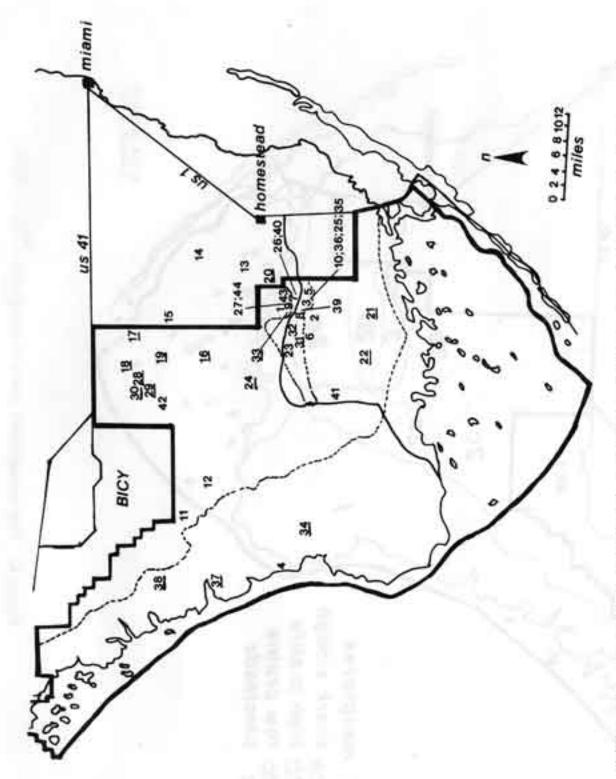


Figure 5. Approximate location of fires during 1981 within Everglades National Park. Fire numbers shown correspond to Table 1; lightning fires are underlined.

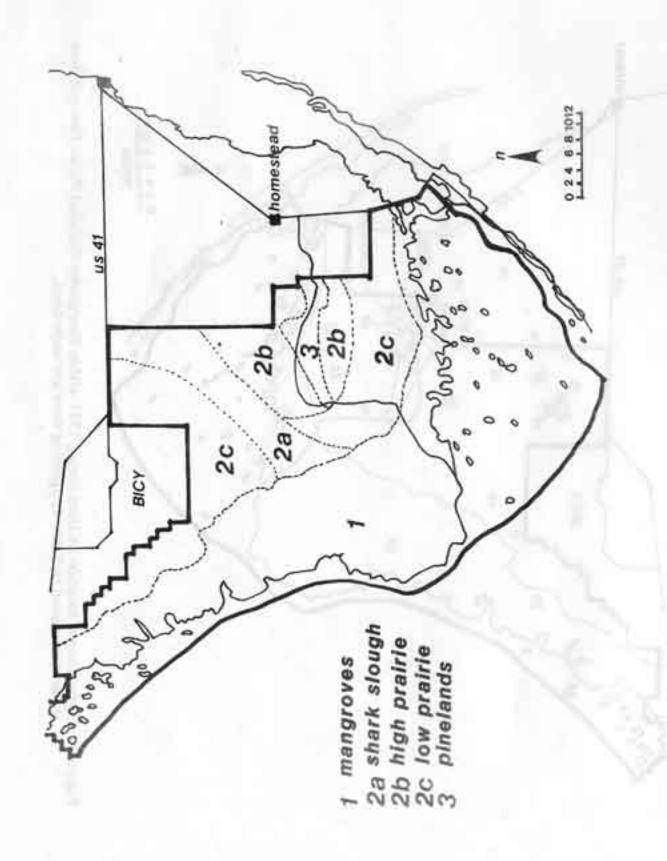


Figure 6. Fire management zones in Everglades National Park.

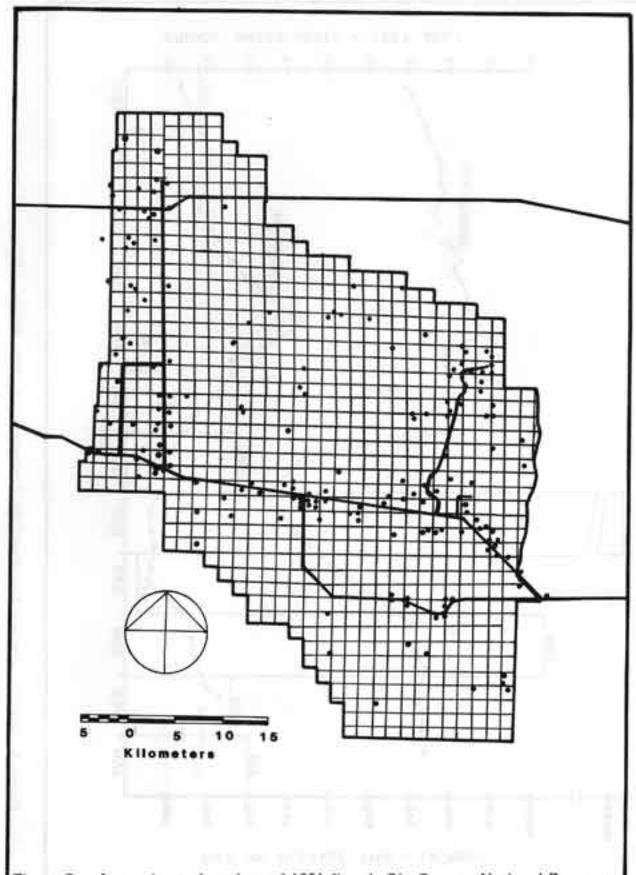


Figure 7. Approximate locations of 1981 fires in Big Cypress National Preserve.

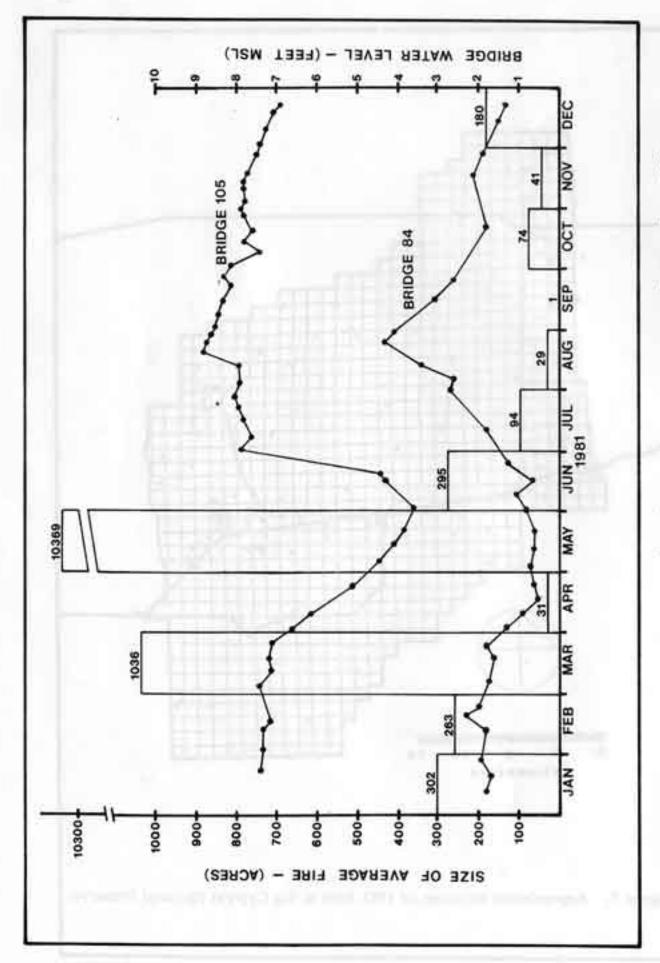
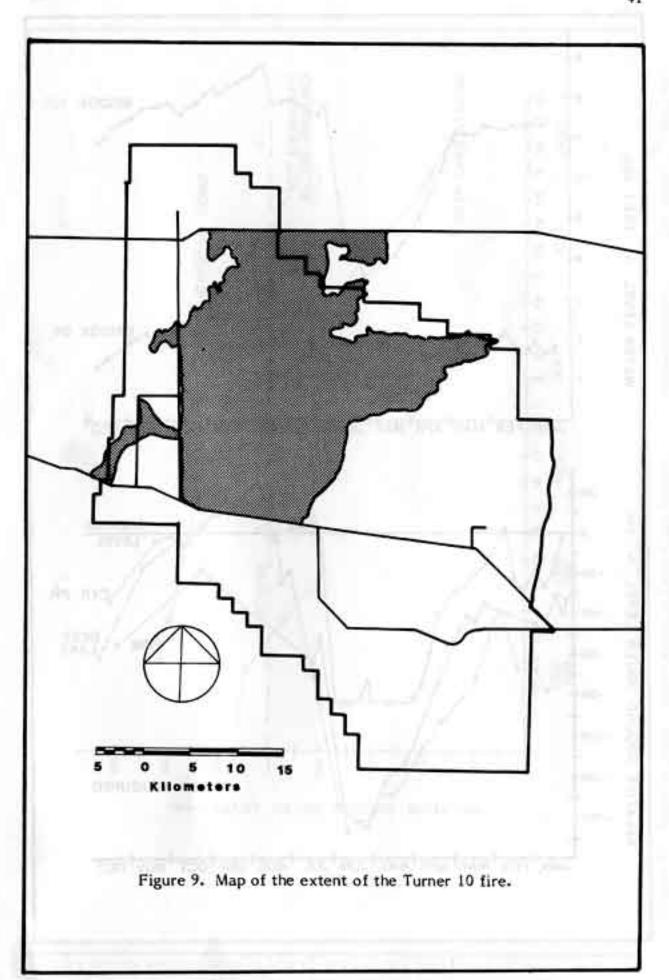


Figure 8. Monthly average fire sizes (1981) compared to water levels at Bridges 84 and 105.



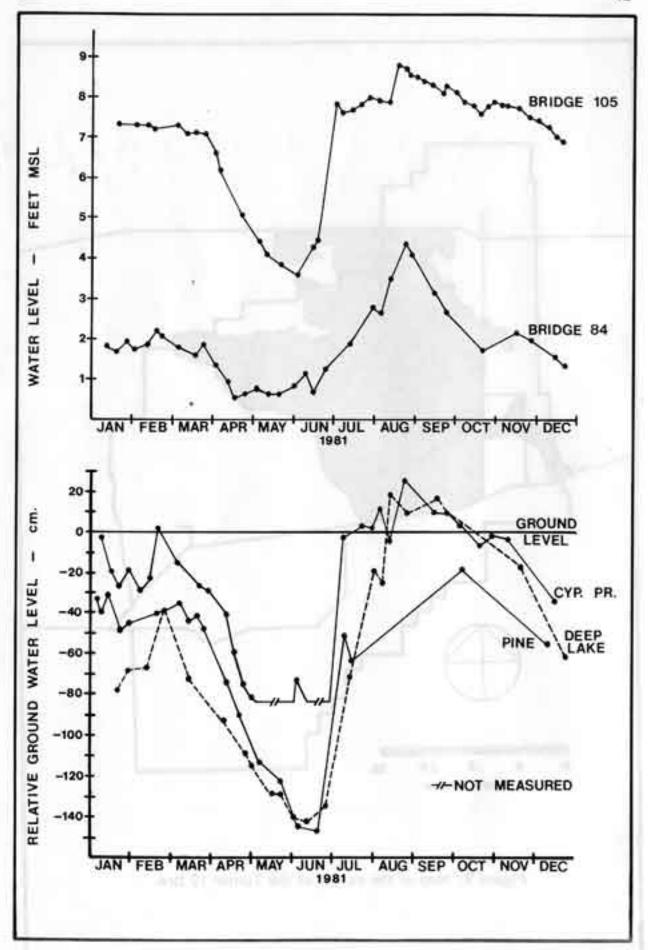


Figure 10. Monthly water levels at Bridges 84 and 105 and relative ground water levels in three Fire Ecology Study Areas in 1981.

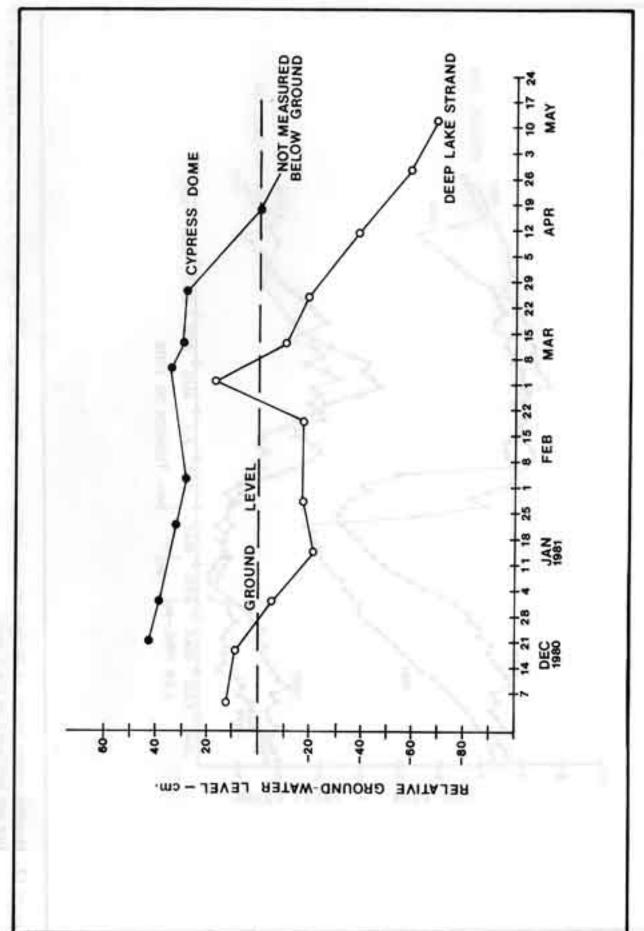


Figure 11. Monthly ground water levels in Deep Lake Strand and in a cypress dome on 11 Mile Road in 1980-1981.

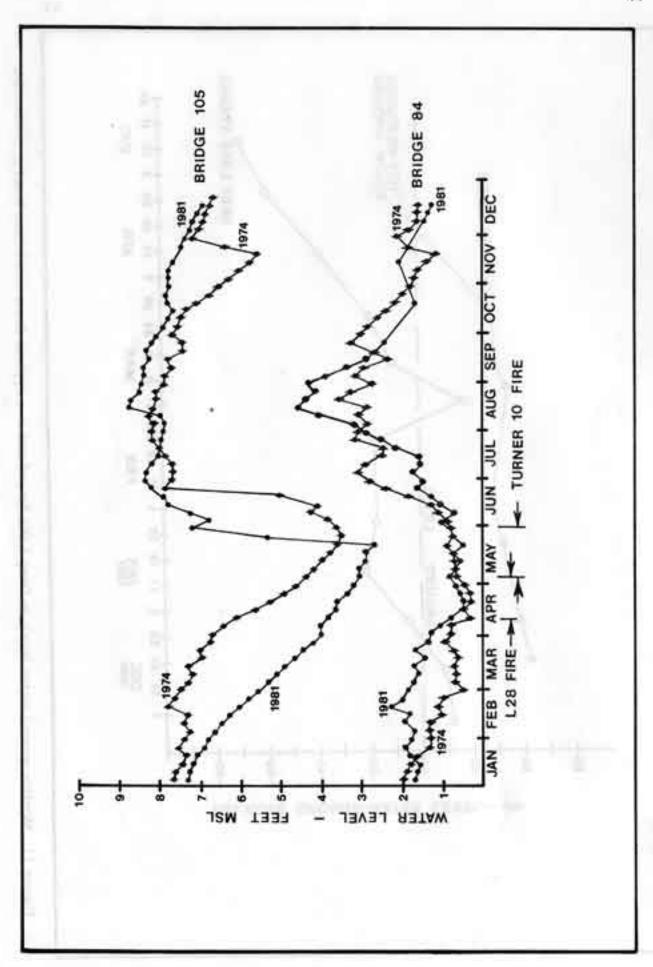


Figure 12. Monthly water levels at Bridges 84 and 105 in 1981. The time spans for the 1974 L-28 fire and 1981 Turner 10 fire are indicated on the x-axis.

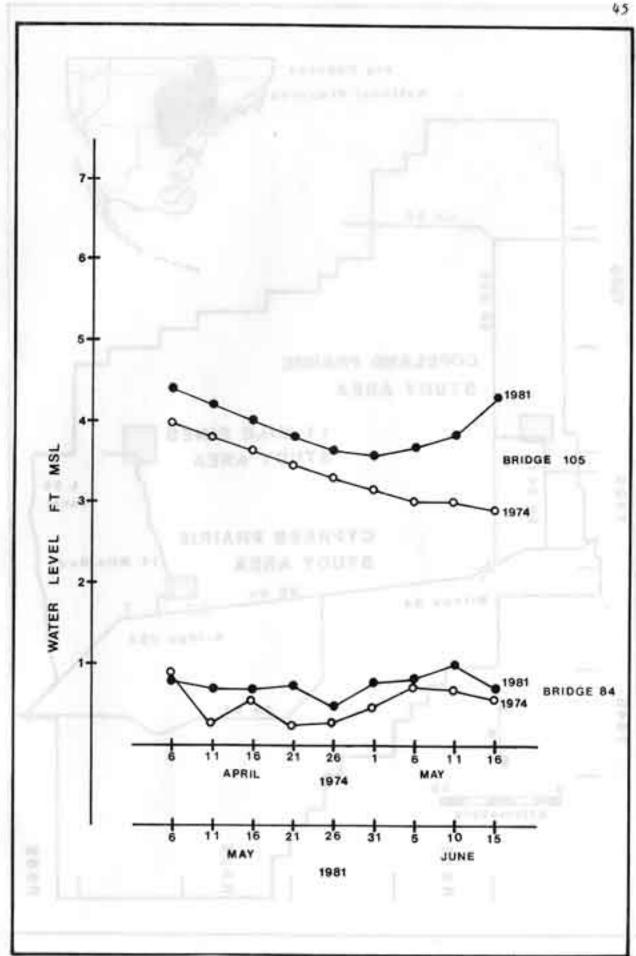


Figure 13. Comparison of monthly water levels at Bridges 84 and 105 during the 1974 L-28 fire and 1981 Turner 10 fire.

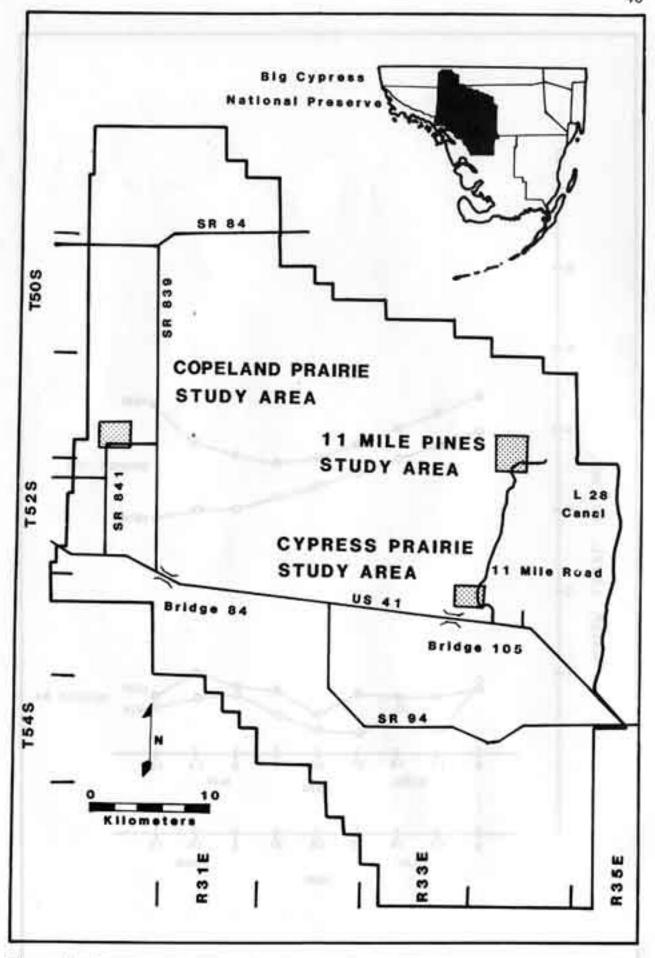


Figure 14. Location of Fire Ecology Research Study Areas in Big Cypress National Preserve.

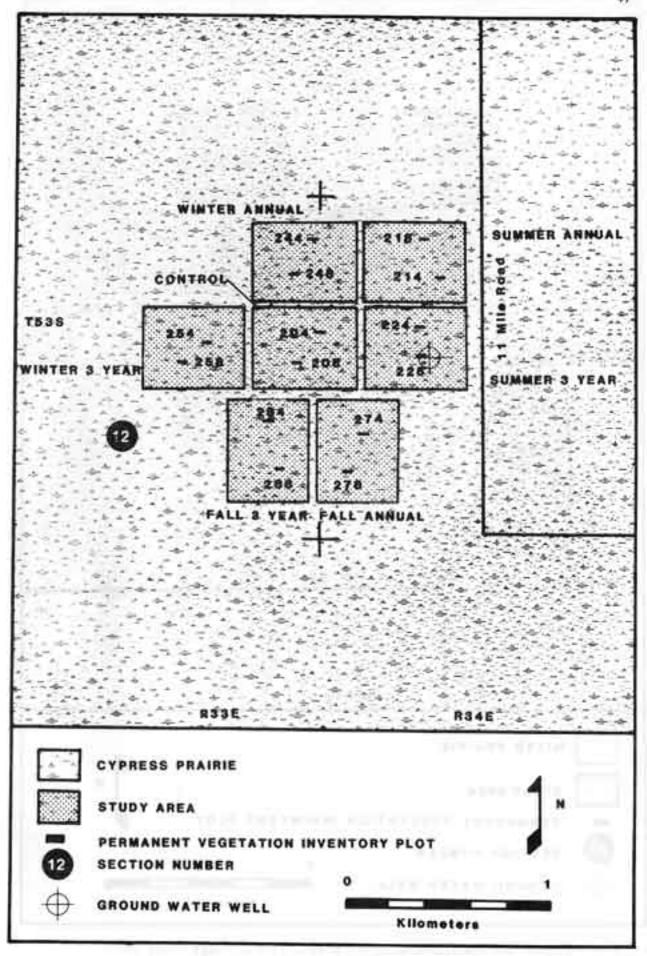


Figure 15. Locations of cypress prairie Fire Ecology Research Study plots.

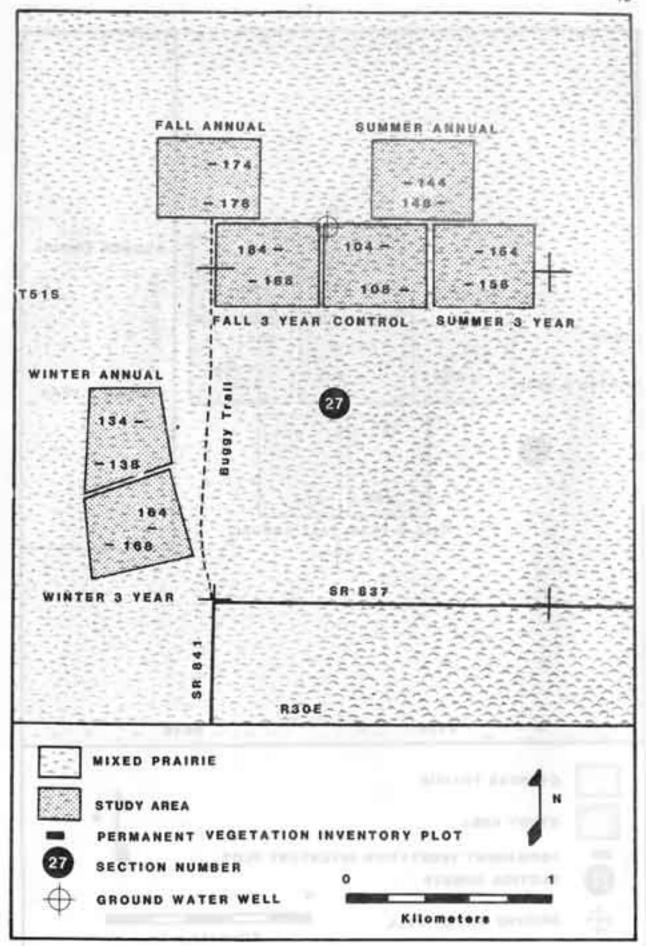


Figure 16. Locations of mixed prairie Fire Ecology Study plots.

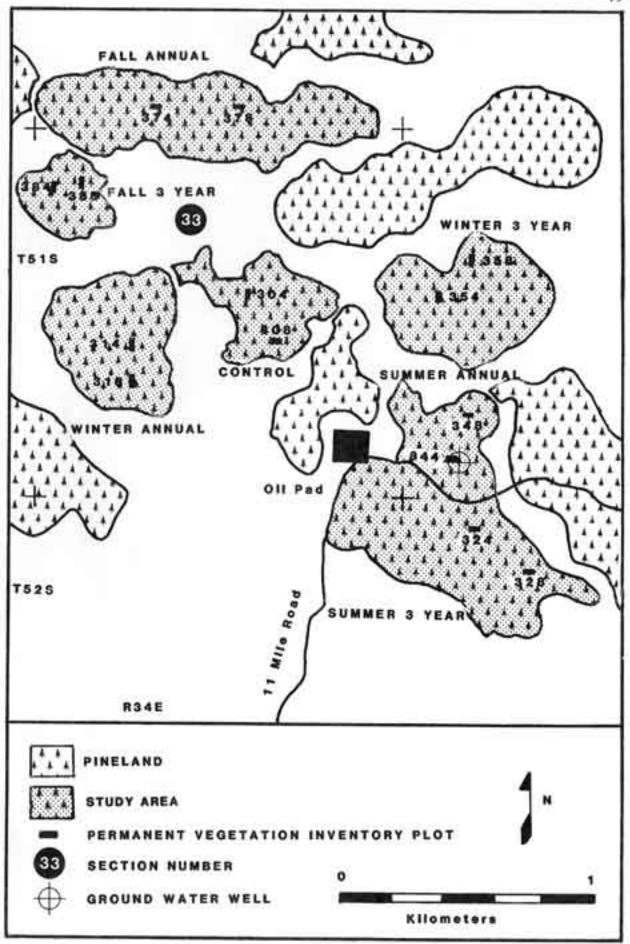


Figure 17. Locations of pineland Fire Ecology Research Study plots.