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FIFTEENTH ANNUAL REPORT

OF THE

PEND D'OREILLE  
TIMBER PROTECTIVE  
ASSOCIATION

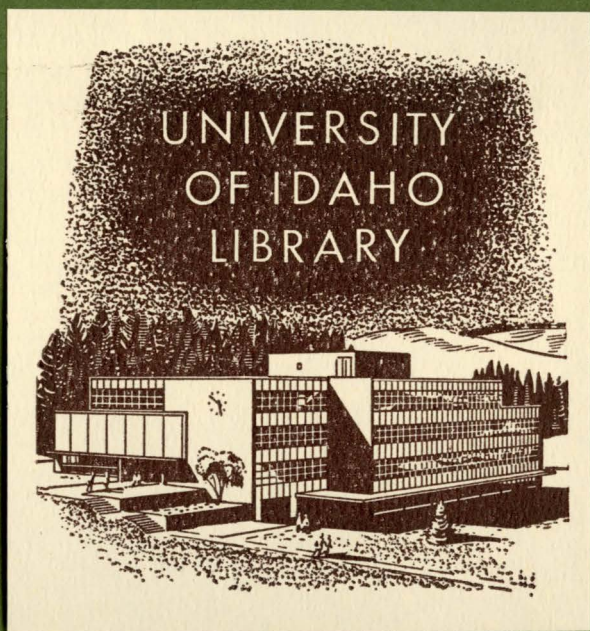


FOR THE YEAR

1922



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IN THE YEAR 1890

1923

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ASSOCIATION

B. H. HORNBY, PRESIDENT

BEN E. BUSH, VICE PRESIDENT

T. L. GREER, SECRETARY-TREASURER

J. R. WINNINGTON, CHIEF FIRE WARDEN

SANDPOINT, IDAHO

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DIRECTORS

B. H. HORNBY

BEN E. BUSH

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FIFTEENTH ANNUAL REPORT

— OF THE —

PEND D'OREILLE  
TIMBER PROTECTIVE  
ASSOCIATION



FOR THE YEAR

1922

## REPORT OF THE PRESIDENT

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To the Members of the Pend d'Oreille Timber Protective Association and State Board of Land Commissioners:

Gentlemen:

We are to be congratulated on the good showing made for the year 1922 in this association, for our losses were small and our expense per acre ( $11\frac{1}{4}$  cents), in proportion.

The greatest worry timber owners face in the white pine region is fire, and in consequence efficient patrol and fire prevention costs are fully justified in its protection.

In the year 1920 over 50 per cent of our actual fire fighting was on state land and some of it dangerously near the 10,000-acre tract sold for \$750,000 at Big Creek in Twp. 57 R. 4 W., which surely emphasizes the need for full state co-operation in this work, as timber on over 38,000 acres owned by it, in this association's district alone, constitutes a vast asset for years to come to the residents of Idaho.

During 1922, the directors of this association were obliged to personally endorse the payment of \$1550.44 representing the state's share of expense not covered by appropriation and it is to be hoped that the legislature will see that this amount with 7 per cent interest will become available this 1923 session.

Respectfully submitted,

B. H. HORNBY, *President.*



Day-MW  
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 421  
 P45  
 1922

Pend d'Oreille Timber Protective Association

STATEMENT OF CASH RECEIPTS AND DISBURSEMENTS

For Year Ending November 30, 1922.

Receipts

For 1922 Assessments:		
Humbird Lumber Co. ....	\$14,926.08	
W. M. Evans .....	15.60	
Dalkena Lumber Co. ....	461.76	
Diamond Match Co. ....	183.30	
Northern Pacific Ry. Co. ....	3,237.91	
Dover Lumber Co. ....	1,427.63	
McGoldrick Lumber Co. ....	136.50	
Bonnars Ferry Lumber Co. ....	320.02	
Potlatch Lumber Co. ....	249.60	
Edward Rutledge Timber Co. ....	18.80	
Menasha Woodenware Co. ....	263.20	
State of Idaho .....	2,872.19	
E. T. Chapin .....	37.60	
Somers Bros. Co. ....	514.23	
Weeks Law Fund .....	4,370.99	\$29,035.41
Great Northern Ry. (Reimbursement of Sand Creek Fire) .....		1,883.25
Accounts Receivable 1921 (Diamond Match Co. ....)		31.20
Bills Payable .....		4,550.44
Interstate Utilities Co. ....		15.13
		<hr/>
Total Receipts .....		\$35,515.70
Bank Balance, Dec. 1, 1921 .....		449.16
		<hr/>
		\$35,964.86

Disbursements

Telephone Construction .....	\$ 158.96	
Fires .....	\$17,247.87	
Patrolling .....	8,077.77	\$25,325.64
Less Hospital and Supplies held from wages .....	271.86	25,053.78
Miscellaneous Expense .....		459.45
Board, Lodging, Horse Feed, Gas and Oil		714.90
Trail Maintenance .....		229.16
Salary and Expense Chief Fire Warden...		1,716.11
Office Expense .....		294.95
Camp Equipment and Tools .....		134.97
Vehicles, Horses and Saddles .....		278.14
Western Forestry Conservation Assn. ....		533.05
U. S. Forest Service Cooperative Dist. ....		2,663.32
Insurance .....		97.50
Liability Insurance .....		482.07
Interest .....		6.32
Burning Slashings (Somers Bros.) .....		56.55
Bills Payable .....	2,500.00	
Hospital .....	230.00	\$35,609.24
		<hr/>
Bank Balance Nov. 30, 1922 .....		355.62
		<hr/>
		\$35,964.86

Pend d'Oreille Timber Protective Association

**REVENUE AND EXPENSE STATEMENT**

For the Year Ending November 30, 1922

**Revenue**

Assessments:

Humbird Lumber Co. ....	\$17,425.92	
M. W. Evans .....	18.80	
Dalkena Lumber Co. ...	556.10	
Diamond Match Co. ....	183.30	
Northern Pacific Ry. Co.	3,905.26	
Dover Lumber Co. ....	1,427.63	
McGoldrick Lumber Co. ..	164.50	
Bonnors Ferry Lbr. Co...	320.02	
Potlatch Lumber Co. ...	300.80	
Edward Rutledge Tim- Co. ....	18.80	
Menasha Woodenware Co.	263.20	
State of Idaho .....	4,422.63	
E. T. Chapin .....	37.60	
Somers Bros. Co. ....	514.23	29,558.79

Weeks Law Fund .....		4,370.99
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Total Revenue		\$33,929.78
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**Expense**

Board, Lodging and Horse Feed	\$ 714.90	
Trail Maintenance .....	229.16	
Fires .....	15,345.14	
Patrolling .....	8,077.77	
Salary and Exp. Chief Fire Warden	1,716.11	
Office Expense .....	97.50	
Liability Insurance .....	482.07	
Interest Expense .....	6.32	

Depreciation:

On Camp Equipment & Tools	\$117.87	
On Horses and Saddles ...	408.60	
On Telephone Construction	61.98	
On Office Fixtures .....	13.08	
On Vehicles .....	99.65	701.18

Miscellaneous Expense .....		992.50
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\$28,642.48

Less Credits to Expense (Sup- plies held from men's wages)	41.86	\$28,600.62
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Excess of Revenue over Expense		\$ 5,329.16
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## BALANCE SHEET

November 30, 1922

### Assets

Current Assets:		
Cash .....	\$ 355.62	
Accounts Receivable:		
Dalkena Lumber Co....\$	94.34	
M. W. Evans .....	3.20	
Humbird Lumber Co. . .	2,499.84	
State of Idaho .....	1,615.83	
McGoldrick Lbr. Co. . .	28.00	
Northern Pacific Ry. Co.	667.35	
Potlatch Lumber Co. . .	51.20	
Idaho Match Block Co.	56.55	
Standard Motor Parts Co.	17.05	5,033.36
Total Current Assets .....		\$5,388.98
Fixed Assets:		
Camp Equipment and Tools	1,060.92	
Telephone Construction . . . .	557.77	
Horses and Saddles .....	611.54	
Office Fixtures .....	39.24	
Vehicles .....	149.48	
Total Fixed Assets .....		2,418.95
		\$7,807.93

### Liabilities

Current Liabilities:		
Notes Payable—First Nat. Bank, Sandpoint		\$2,050.44
Surplus:		
Surplus—Nov. 30, 1921	428.33	
Excess of Revenue over Expense, 1922	5,329.16	
Surplus Nov. 30, 1922		5,757.49
		\$7,807.93

## RECONCILIATION OF BANK BALANCE

### RECONCILIATION OF BANK BALANCE

Balance per Bank Statement, November 30, 1922.	\$678.83
Less Outstanding Checks:	
1917 No. 1339.....	\$ .90
1917 1412.....	3.50
1917 1597.....	17.50
1918 493.....	14.00
1918 495.....	1.00
1919 835.....	190.08
1920 130.....	3.50
1920 274.....	47.08
1920 322.....	19.00
1922 448.....	25.65
1922 456.....	1.00
	\$323.21
Ledger Balance Nov. 30, 1922 .....	\$355.62

### LEDGER ACCOUNT WITH THE STATE OF IDAHO

DEBITS	CREDITS
1921	1922
Dec. 1 Balance .....\$ 65.39	Jan. 21 Assmt No. 4 \$ 158.92
Dec. 19 Assmt No. 4 158.92	July 3 Assmt No. 1 1,162.83
1922	Aug. 3 Assmt No. 2 1,550.44
June 16 Assmt No. 1 1,162.83	
Aug. 1 Assmt No. 2 1,550.44	
Aug. 29 Assmt No. 3 775.22	
Nov. 23 Assmt No. 4 775.22	Balance ..... 1,615.83
\$4,488.02	\$4,488.02



ACREAGE ASSESSMENTS—1922

Members	1921 Acreage	1922 Acreage	Assmt. No. 4 Dec. 1921, ½c	Assmt. No. 1 3¼ cts.	Assmt. No. 2 4 cts.
Humbird Lbr. Co. ....	166,478.86	147,498	\$832.39	\$4,793.69	\$5,899.92
N. P. Ry. Co. ....	40,379.62	44,490	151.42	1,084.44	1,334.70
State of Idaho ....	31,783.67	38,761	158.92	1,162.83	1,550.44
Dover Lbr. Co. ....	12,150.00	12,150	60.75	394.88	486.00
Dalkena Lbr. Co. ....	6,088.00	4,714	25.44	153.30	188.68
Somers Bros. Co. ....	4,376.56	4,376.56	21.88	142.23	175.06
Bonnars Ferry Lbr. Co. ....	2,916.00	2,715	14.58	88.24	108.60
Potlatch Lbr. Co. ....	2,560.00	2,560	12.80	83.20	102.40
Menasha W. W. Co. ....	2,240.00	2,240	11.20	72.80	89.60
Diamond Match Co. ....	1,560.00	1,560	7.80	50.70	62.40
McGoldrick Lbr. Co. ....	1,400.00	1,400	7.00	45.50	56.00
E. T. Chapin Co. ....	320.00	320	1.60	10.40	12.80
E. (R.) Hedge Lbr. Co. ....	160.00	160	.80	5.20	6.40
M. W. Evans .....	160.00	160	.80	5.20	6.40
	<u>271,572.71</u>	<u>263,104.56</u>	<u>\$1,307.38</u>	<u>\$8,092.61</u>	<u>\$10,079.40</u>

ACREAGE ASSESSMENTS—1922, Continued

	Assmt. No. 3, 2c	Assmt. No. 4, 2c	Total 1922 Fire Season, 11¼c	Total Fiscal Yr. '22, 11¼c
Humbird Lbr. Co. ....	\$2,949.96	\$2,949.96	\$16,593.53	\$17,425.92
N. P. Ry. Co. ....	667.35	667.35	3,753.84	3,905.26
State of Idaho .....	775.22	775.22	4,263.71	4,422.63
Dover Lbr. Co. ....	243.00	243.00	1,366.88	1,427.63
Dalkena Lbr. Co. ....	94.34	94.34	530.66	556.10
Somers Bros. Co. ....	87.53	87.53	492.35	514.23
Bonnors Ferry Lbr. Co. ....	54.30	54.30	305.44	320.02
Potlatch Lbr. Co. ....	51.20	51.20	288.00	300.80
Menasha W. W. Co. ....	44.80	44.80	252.00	263.20
Diamond Match Co. ....	31.20	31.20	175.50	183.30
McGoldrick Lbr. Co. ....	28.00	28.00	157.50	164.50
E. T. Chapin Co. ....	6.40	6.40	36.00	37.60
E. R. Hedge Lbr. Co. ....	3.20	3.20	18.00	18.80
M. W. Evans .....	3.20	3.20	18.00	18.80
	<hr/>	<hr/>	<hr/>	<hr/>
	\$5,039.70	\$5,039.70	\$28,251.41	\$29,558.79

The Northern Pacific Railway Company is a contributing member only and pays 75% of the assessment against regular members.

The State of Idaho pays ¼c less on the first assessment account not contributing to the Western Forestry and Conservation Association.



## AUDITOR'S REPORT

Spokane, Washington, Dec 6, 1922.

From: Wm. Gowen.

To: B. E. Hyatt, Director Bureau of Public Accounts.

Subject: Audit of the Pend d'Oreille Timbre Protective Association for the fiscal year December 1, 1921 to November 30, 1922.

All cash receipts are deposited in the bank and all disbursements made by voucher check. All cash was checked in and out of the bank from bank statements and balance verified from bank statement.

All vouchers and bills were examined as to amount and character of expenditure and for endorsements and counter signatures and were found proper.

Accounts Receivable from the State of Idaho includes, assessments Nos. 3 and 4 for 1922 and a balance of interest charge for 1920 of \$65.39. Interest charges for 1920 were computed to March 1, 1921 and claims made, which were paid by the State, March 22nd, leaving a balance of interest from March 1st to 22nd.

The account receivable from the Standard Motor Parts Company is an old balance from 1921.

Charges to "Fixed Asset" accounts were checked and found to be proper except a few charges of small amounts and depreciation charges are sufficient.

(Signed) WM. GOWEN,  
Senior Acc't'nt Bureau of Pub. Acc'ts.

## SECRETARY-TREASURER'S REPORT

DECEMBER 1, 1922

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To the Honorable Board of State Land Commissioners  
and the Members of the Pend d'Oreille Timber  
Protective Association:

Does organized fire fighting pay? This is best answered by citing the evidence of the growth of forest fire protective associations throughout the civilized world. With China's desolate and denuded areas as a most glaring example of forest neglect, timber owner and the public in general are improving the methods and increasing the vigilance of forest fire protection everywhere.

However the remarkable indifference of the forest dwellers and the increasing cost of fire protection may well give us pause, to ask the question, "What progress are we making?"

Since our organization in 1908, it has been our custom to submit an annual report of our work for the season and of late years we have included the statistics of preceding years, so that a comparison may be had and definite conclusions arrived at.

It is impossible to cite all the factors that make the fire hazard, but the writer has delved into the records of both the U. S. Forest Service and the P. T. P. Ass'n since 1907 and feel that the evidence is conclusive that *we are making progress.*

Temperature, rainfall and lumbering debris are the largest factors in the fire hazard. Better efforts are undoubtedly made every year towards slash disposal.

The seasons of 1910 and 1919 are the outstanding periods in our history. They clearly show the intimate relation between the number and size of fires to the maximum temperature and minimum rainfall.



To give you an idea of what progress we are making in our fire protective work I am going to compare the conditions and results of our 1922 season with those of 1910 and 1919.

U. S. Forest Service records show over 80 per cent of the 1922 season was above normal maximum temperature. In 1910 and 1919 the average rainfall for May, June, July and August was 3.79 in., i. e. 70 per cent of normal. In 1922 the rainfall during same period was only 2.15 in., i. e. only 40 per cent of normal.

In 1922 the number of fires increased 15 per cent over 1910 and 1919 seasons: while the size of the fires decreased from 45 per cent to 39 per cent of fires over 10 acres in area.

Of the total 193,930 acres burned over since 1907 55 per cent was burned in 1910 and 1919, while only 20 per cent was burned in 1922.

Of the total amount \$221,499.00, spent for fire-fighting since 1907; 52 per cent was spent in 1910 and 1919: while only 34 per cent of the average for those two years was spent in 1922.

Thus we see that with all the factors showing 1922 season the most hazardous in our history costs and damage have been materially reduced.

Particular attention is called to the fact that neither the state of Idaho nor any non-resident timber owner has suffered any material damage or loss during the past few years in our district.

The appropriation of the state of Idaho having been exhausted by the extremely heavy expenditures in other districts, the state was unable to pay its share of our expenses, so we were authorized by the State Land Board to borrow from the First National Bank \$1550.44 with interest, to cover its shortage, which will undoubtedly be taken care of by the next legislature in a deficiency appropriation, as has been the custom.

All other members have been prompt in paying assessments as they have been levied to pay the bills. Gov. Davis has kindly furnished one of the state auditors to

audit our accounts and his report is appended to our financial statement.

Our directors have thought it wise to print sufficient copies of our annual report to give one to each member of the House and Senate, so they can inform themselves of just what is being done by our association to protect the state's resources and to carry to maturity and manufacture this vast heritage of timber in North Idaho.

The vigilant and intelligent co-operation of both Land Commissioner, I. H. Nash, and Land Examiner, Ben E. Bush, has been of material assistance to us in our work, for which we desire to express thanks.

Respectfully submitted,

T. L. GREER, *Secy.-Treas.*

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Maine has increased the tax on all land within the forest districts from  $1\frac{3}{4}$  to  $2\frac{1}{4}$  mills for fire protection.

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Pennsylvania with her depleted forests in 1921 appropriated \$1,000,000 for fire protection. In 1860 she was first in lumber production, in 1921 twentieth in the list.

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Fire prevention will go a long way—probably most of the way—toward assuring natural reproduction of desirable species on much of our forest land.

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In 1922 the Federal Government contributed \$8,500,000 to assist agriculture, but only \$85,000 for methods of growing timber.

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The United States produces over half of the entire lumber cut of the world and uses 95 per cent of this cut at home.



## REPORT OF THE FIRE WARDEN

Fiscal year Dec. 1, 1921 to Nov. 30, 1922.

To the Idaho State Land Board and the Pend d'Oreille Timber Protective Association.

The following is a report of the Fire Season of 1922 of the Pend d'Oreille Timber Protective Association.

The headquarters of the Chief Fire Warden of this Association is 317 Cedar St., Sandpoint, Idaho.

One Assistant Chief Fire Warden, at Sandpoint; one Resident Fire Warden, at Priest River, Ida.; and fifteen Deputy Fire Wardens were appointed by this Association, for the past fire season.

The Association territory covering 700,000 acres, of which only 263,000 acres pay for fire protection, was divided into fourteen patrol districts. The headquarters of each District Deputy Warden was as follows:

1. McArthur Dist., Headquarters, Naples, Ida., in the N. W.  $\frac{1}{4}$  Sec. 11, Twp. 60 N., R. 1 E. B. M.
2. Elmira Dist., Headquarters, a cabin in the N. W.  $\frac{1}{4}$  of Sec. 23, Twp. 59 N., R. 1 W. B. M.
3. Grouse Cr. Dist., Headquarters, at the Humbird Lbr. Co's old camp 15, in the East  $\frac{1}{2}$  of Sec. 19, Twp. 59 N., R. 1 E. B. M.
4. Gold Cr. Dist., Headquarters, at Humbird Lbr. Co's camp No. 6 in the S. E.  $\frac{1}{4}$  Sec. 29, Twp. 59 N., R. 1 E. B. M.
5. Upper Gold and Lightning Cr. Dist., Headquarters, at the Humbird Lbr. Co's camp No. 1 in the S. E.  $\frac{1}{4}$  of Sec. 33, Twp. 59 N., R. 1 E. B. M.
6. Lightning Cr. Dist., Headquarters, at the Sandpoint Lbr. and Pole Co's camp in the N. E.  $\frac{1}{4}$  of Sec. 16, Twp. 58 N., R. 1 E. B. M.
7. Lower Pack River Dist., Headquarters, a cabin

in Sec. 11, Twp. 59, R. 2 W. B. M.

8. Upper Pack River Dist., Headquarters, a cabin in Sec. 9, Twp. 60 N. R. 2 W. B. M.

9. Cariboo Pk. Lookout, Lookout cabin in N. W.  $\frac{1}{4}$  of Sec. 30, Twp. 59 N., R. 2 W. B. M.

10. The Dover Dist. or North Baldy Lookout, Headquarters, Lookout cabin in the S. W.  $\frac{1}{4}$  of Sec. 35, Twp. 58 N., R. 3 W. B. M.

11. Edgemere Dist., Headquarters, at Edgemere, Ida., in Sec. 34, Twp. 55 N., R. 4 W. B. M.

12. Priest River Dist., Headquarters, Priest River, Ida., in Sec. 25, Twp. 56 N., R. 5 W. B. M.

13. Lower West Branch of Priest River, Headquarters, Torrell Falls in Sec. 16, Twp. 57 N., R. 5 W. B. M.

14. Blanchard Dist., Headquarters, at Blanchard, Ida., in Sec. 20, Twp. 54 N., R. 5 W. B. M.

*Fire Season.*

A late spring and comparatively early opening of one of the longest fire seasons this territory has had to contend with, characterized the forest fire situation for the past summer.

General showers on June 8th and July 8th, local showers accompanied by heavy lightning on July 25th, general rain on Aug. 10th, and local showers on Aug. 31st, sums up the periods of rainfall.

The periods of greatest fire hazard were from June 20th to July 8th; July 15th to July 25th; Aug. 1st to 10th; Aug. 20th to 31st.

The fire hazard during the last week in June and first week in July was, to my knowledge, the most dangerous in the last fourteen years.

The rain on Aug. 10th found us with fourteen fires kept under control by between one hundred and a hundred and fifty fire-fighters.

Labor was plentiful during the past season, and with but few exceptions satisfactory.

This Association put out and controlled 130 fires in all: Of these 56 were cost fires, and 74 no cost fires. They come under the classification of 38 class A; 32 class B; and 60 class C.



The extra cost of fire suppression, for this year, for labor, supplies, and transportation was approximately \$19,000.00.

The total acreage burned over was 10462 acres; of this 823 acres were timber; 1500 acres reproduction; 2219 acres old burns; 5107 acres brush land; 313 acres slashings.

Thirty M. feet of timber was destroyed, and 2150 M feet was burned of which 50 per cent will be salvaged this winter. Merchantable timber loss for the season is approximately one million feet of mixed logs.

The fire of June 28 in Sec. 13, Twp. 57 N., R. 3 W., burned over approximately 500 acres of old burn and brush land. It was set by campers, and got a start because men sent to it on the morning of the 29th did not go to it but came in and called for their time on the evening of that date. This fire burned out twenty rods of the Dover Lbr. Co's. flume, but did little damage to any merchantable timber. Total cost \$1499.52.

The fire of July 4th in Sec. 18, Twp. 57 N., R. 2 W. started in the late afternoon of July 3rd. This fire was in brush and old slashings. The forenoon of July 4th was very dry and windy. On account of it being a holiday it was impossible to get enough men, on short notice, to get this fire under control before it had burned up the Somers Bros. sawmill in the north half of the section. The lumber yard adjacent to the mill in which was piled 1,000,000 feet of match lumber, belonging to the Diamond Match Co. was saved, owing to the exceptionally good work of six men, and due to the fact that barrels filled with water had been placed through the yard. This fire covered an area of 400 acres. Total cost \$953.86.

Lightning fire of July 17th, in Sec. 8, Twp. 58 N., R. 2 E. This fire was very hard to get supplies to at the time. All supplies for the first week were taken in in packsacks by the fire crew. There were no blankets on this fire for the first six nights. The fire was under control on the afternoon of the 18th. The first crew was on the fire at 3 a. m. of the 18th. The fire crew put in a pack-horse trail from the Beardsmore flume camp

near the North  $\frac{1}{4}$  Cor. of Sec. 12, Twp. 58 N., R. 1 E. to the fire, and along the ridge to a prominent point in Sec. 20, Twp. 58 N., R. 2 E. This fire burned over fifty acres of state timber land, and did but slight damage to some 200 M feet. Total cost \$1,068.44.

The fire of July 21st, started by campers, in the S. E.  $\frac{1}{4}$  of Sec. 36, Twp. 57 N., R. 2 W., was put under control on the night of that date at a cost of \$81.55. The next day, July 22nd, a railroad fire started in the S. W.  $\frac{1}{4}$  of this section. This fire was fought by a crew of twenty or more railroad men in addition to two patrolmen of this association. The members of this association have no holdings in the areas burned over, or adjacent to this fire. Had this association taken over the railroad fire, after it had got beyond control of the railroad men fighting it, it would have cost them between three and four thousand dollars to have held it in check. The owners of these burned over areas have been solicited on numerous occasions to become members of this Timber Protective Assn., but to no avail. The 1320 acres of reproduction, brush land, old burn, and merchantable timber covered by this fire, on forest land, adjacent to one of the most beautiful lakes in the Northwest, is a glaring example of why all forest land within the state should be made to pay for fire protection, instead of the optional listing of their timber lands, by the owners, with the State Timber Protective Associations, as the present law now intends.

The fire of July 28 which started from the burning of the city rubbish pile, of Spirit Lake, Ida., in Sec. 4, Twp. 53 N., R. 4 W., burned over approximately 1000 acres of old cutover land in the above section and Sec. 32, Twp. 54 N., R. 4 W., together with 15 acres of merchantable timber in Sec. 33, Twp. 54 N., R. 4 W., damaging some 150 M feet belonging to the Humbird Lbr. Co. Total cost \$587.34.

The fire of Aug. 6th, which started in the S. E.  $\frac{1}{4}$  of Sec. 25, Twp. 57 N., R. 5 W., burned over twenty-five acres of merchantable white pine timber, belonging to the Humbird Lbr. Co., damaging some 500 M ft., log scale. This fire also burned over 375 acres of old burn



in Sec. 30, Twp. 57 N., R. 4 W. The greater part of the work done on this fire was caused by the negligence of patrolmen on the fire when it first started. Total cost \$1592.34.

The lightning fire of Aug. 22, on a ridge, at the head of Cariboo Cr., burned over one hundred acres of brush land in Secs. 13 and 14, Twp. 59 N., R. 3 W. B. M. This fire was hard to get supplies to for the first three days, when a shotgun pack-horse trail was completed to the camp ground near the fire. An exceptionally efficient crew of men worked on this fire. Total cost \$829.35.

*Burning Permits. — Slashings.*

There were 210 burning permits issued to settlers this past season, to cover the burning of approximately 1000 acres, for land clearing purposes.

Th greater part of the slashings incident to the logging operations, in this association's territory, are well cleaned up. There are however a few hangover slashings, the operators, for the most part, not desiring to burn them this fall, on account of having merchantable timber still on the ground.

The Humbird Lbr. Co. have burned their slashings in the following sections: Sec. 25—35, Twp. 55 N., R. 4 W. Sec. 30—31, Twp. 57 N., R. 4 W. Sec. 6—23, Twp. 57 N., R. 5 W. Sec. 16, Twp. 58 N., R. 4 W. Sec. 15—11, Twp. 59 N., R. 2 W. Sec. 15—29—33, Twp. 59 N., R. 2 E. Sec. 28, Twp. 61 N., R. 1 E.

The Sandpoint Lbr. & Pole Co. slashings burned: Sec. 8—10—16, Twp. 58 N., R. 1 E.

The Beardmore Lbr. Co. slashings burned: Sec. 12—14, Twp. 58 N., R. 1 E.

The Somers Bros. Match Co. slashing in Sec. 20, Twp. 59 N., R. 1 E., where the cedar had been taken off, and Sec. 10, Twp. 57 N., R. 3 W. was burned this last spring.

*Co-operation.*

The cooperative service rendered by the U. S. Forest Service was very much appreciated, and I wish to thank the personnel of the Pend d'Oreille and Kaniksu National Forests for their help and intrest taken in

our work during the past fire season.

*Improvements.*

The trails up Trout, Lightning, Gold, Grouse, Jeru, Cariboo, Colburn, and Sand Crs. were put in a serviceable condition. A new 'phone line was built up Cariboo Cr. to the Lookout in Sec. 30, Twp. 59 N., R. 2 W., and the 'phone line to North Baldy Lookout in Sec. 35, Twp. 58 N., R. 3 W., as were the 'phone lines up Lightning, Grouse, and Gold creeks, was maintained and kept in serviceable condition uring the fire season.

Two Lookout cabins were built this season, one on North Baldy Mt. in Sec. 35, Twp. 58 N., R. 3 W., and one on Cariboo Pk. in Sec. 30, Twp. 59 N., R. 2 W. These lookout cabins were built of lumber, 12 ft. by 12 ft. inside, 8 feet from floor to rafter plates. A 6ft. by 6 ft., inside measurement, observation cupola with windows comprising the most of the wall space on the four sides, surmounts the whole. These cabins greatly improve the living conditions and services rendered by the lookout men.

*Suggestions for New Improvements and Equipment.*

The Fire Wardens were furnished with saddle horses, with the exception of the Resident Warden at Priest River and myself, who were furnished with autos. This horse back method of travel, in some of the patrol districts, is too slow. In the case of a bad fire season, with several fires on their hands, the wardens have to hire cars to keep in touch with their different fires and to investigate reports of new fires. I believe that a motorcycle with a side car, for each of four of our patrol districts, would make for better service and lower the cost of fire prevention, in each district. I would like to see the McArthur, Edgemere, Blanchard, and West Branch Patrolmen each furnished with a motorcycle. Motorcycle transportation costs approximately one cent per mile, and in the districts I have mentioned, which are traversed by good roads, would be the means of getting two or more men, with tools, to a fire in the least possible time, which is more effective than a larger crew later on.

I would recommend the purchase of a Reo Speed



Wagon, for the use of the Headquarters office, to more quickly get a small crew of men, tools, and supplies to the fires, where such are needed.

A great deal of delay is caused by the hiring of outside trucks, most especially at night when the most of our fire suppression work is done.

I would also recommend the purchase of one hundred Baldwin coal-miners carbide lights—purchase price \$1.00 each. These are far ahead of the lanterns which we are using at the present time.

I would recommend the building of three miles of additional telephone line from the Beardmore flume camp near the North  $\frac{1}{4}$  Cor. of Sec. 12, Twp. 58 N., R. 1 E. to a prominent point in Sec. 20, Twp. 58 N., . 2 E., and the establishment of a secondary Lookout at this place. I have planned to take up this work in the spring.

Respectfully submitted,

J. R. WINNINGTON, *Chief Fire Warden.*

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### IDAHO'S FOREST RESOURCES

Our School of Forestry estimates that of Idaho's 53,000,000 acres of land, about 23,000,000, or 43 per cent is forested. Of this 23,000,000, 3,500,000 acres are brush and broken grazing land, with 1,000,000 acres, of agricultural value; 14,500,000 acres are best suited for permanent timber production; 4,000,000 acres are inaccessible stream protection forests.

Merchantable timber is estimated at 129,000,000,000 board feet, which is being cut at the rate of 760,000,000 feet per year.

The National Forest Reserves constitute 20,600,000 acres or 90 per cent of the total; Indian Reservations, 100,000 acres; individuals own 1,500,000 acres; while the State of Idaho owns 700,000 acres conservatively valued at \$30,000,000.00, the rich endowment of the state institutions.

## STATISTICAL DATA ON FIRES DURING YEAR 1922

Date	Ownership	S.	T.	R.	Timbr	Repro	Brn	Slash	Damage	Cost	Cause
6-3		8	55	5W	20	180	...	...	...	.....	Rancher
6-3		25	57	6W	...	60	40	...	...	.....	Camper
6-3	J. J. O'Malley	23	58	2W	60	100	...	...	50M	.....	Lumbering
6-16	Bolin and Hitchner	10	57	3W	20	....	300	...	300M	\$2,321.93	Lumbering
6-16	U. S.	34	58	2W	...	5	...	...	...	9.00	Unknown
6-17	Sommers Bros.	7	57	2W	...	5	...	...	...	85.23	Unknown
6-18	Nor. Pac. Ry.	27	58	2W	...	....	5	...	...	64.80	Lightning
6-19	Swannack	1	54	4W	120	200	...	...	500M	243.44	Rancher
6-20	Tom Twitchell	19	58	1E	...	5	...	...	...	4.50	Lumbering
6-20	H. F. Samuels	34	59	1W	...	2	...	...	...	.....	Unknown
6-20		6	54	3W	...	....	...	160	...	58.85	Lumbering
6-21	E. W. Haag	26	58	2W	80	....	80	...	150M	393.77	Rancher
6-21		7	56	2W	...	40	...	...	...	.....	Rancher
6-21	Humbird Lbr. Co.	7	58	1E	10	....	...	30	30M	691.12	Unknown
6-22	Humbird Lbr. Co.	25	55	4W	...	....	...	5	...	.....	Lumbering
6-24	J. F. Corbett	31	59	1E	...	....	...	...	...	.....	Lumbering
6-24	Humbird Lbr. Co	21	54	5W	2	....	...	...	...	3.25	Unknown
6-24		26	60	1W	...	....	...	...	...	.....	R. R.
6-25	Sandpoint Lmbr. & Pole	8	58	1E	...	....	...	25	...	.....	Lumbering
6-25	Frank Horner	3	59	1W	...	1	...	...	...	.....	R. R.
6-25	Humbird Lbr. Co	23	60	1W	...	1	...	...	...	.....	R. R.
6-25	Humbird Lbr. Co.	30	59	1E	...	....	...	...	...	.....	Unknown
6-26		26	60	1W	...	....	10	...	...	.....	Miscellaneous
6-26	Humbird Lbr. Co.	9	58	1E	5	....	...	...	10M	79.10	Lumbering
6-27	Humbird Lbr. Co.	23	60	1W	...	....	...	...	...	.....	R. R.
6-27		3	59	1W	...	....	...	...	...	.....	R. R.
6-27		26	60	1W	...	....	...	...	...	.....	R. R.
6-27		19	61	1E	...	....	...	...	...	.....	R. R.
6-27		8	61	1E	...	....	...	...	...	.....	R. R.
6-27	Sandpoint Lbr. & Pole	33	56	3W	...	1000	...	...	...	.....	Unknown
6-28	Humbird Lbr. Co.	6	54	3W	...	....	...	...	...	.....	Unknown

Pend d'Oreille Timber Protective Association



## STATISTICAL DATA ON FIRES DURING YEAR 1922

Date	Ownership	S. T.	R.	Timbr	Repro	Brn	Slash	Damage	Cost	Cause
6-28	Humbird Lbr. Co.	13 57	3W	...	...	500	...	...	1,499.52	Campers
6-28	Humbird Lbr. Co.	30 59	1E	...	...	5	...	...	.....	Lumbering
6-28	Humbird Lbr. Co.	33 59	1E	...	...	...	20	...	.....	R. R.
6-29	Humbird Lbr. Co.	13 55	4W	...	...	...	...	...	.....	Campers
7-2	Humbird Lbr. Co.	29 59	1E	...	...	...	...	...	.....	Lumbering
7-2		31 57	4W	...	30	...	...	...	52.85	Unknown
7-3	H. K. N. Norgaard	29 57	2W	...	10	...	...	...	.....	Unknown
7-3		3 56	1W	...	10	...	...	...	.....	Unknown
7-3	Bonnors Ferry Lbr. Co.	6 61	1E	...	640	...	...	...	.....	Unknown
7-3	Humbird Lbr. Co.	29 59	1E	...	1	...	...	...	.....	Unknown
7-3		4 57	2W	...	...	...	...	...	5.40	Campers
7-4	Dover Lbr. Co.	28 59	1E	...	...	...	...	...	.....	Campers
7-4		36 55	4W	...	160	...	...	...	.....	Lumbering
7-4	Sommers Bros.	18 57	2W	...	400	...	...	...	953.86	Unknown
7-5	Nor. Pac. Ry.	5 58	2W	...	...	...	...	...	21.60	Lightning
7-5	Dover Lbr. Co.	26 59	1E	...	...	...	...	...	.....	Campers
7-6		32 57	3W	...	40	...	...	...	.....	Unknown
7-7	J. F. Corbett	31 59	1E	...	...	...	...	...	.....	Lumbering
7-9	A. C. White	14 56	3W	20	...	...	...	...	.....	Lumbering
7-12	Humbird Lbr. Co.	13 60	1W	...	...	...	...	...	.....	R. R.
7-14	J. F. Corbett	31 59	1E	...	...	1200	...	...	644.35	Unknown
7-15		25 58	1W	...	1	5	...	...	.....	Rancher
7-16	Nick Dellwo	3 57	2W	...	...	5	...	...	20.50	Unknown
7-16	Humbird Lbr. Co.	12 60	1W	...	15	...	...	...	47.30	Rancher
7-16	Townsend Jackson	23 59	1W	...	...	15	...	...	94.59	Lumbering
7-17		10 56	1W	...	5	...	...	...	.....	Unknown
7-17		32 59	1W	...	100	...	...	...	.....	Rancher
7-17	Humbird Lbr. Co.	12 60	1W	...	1	...	...	...	.....	Unknown
7-17		32 57	3W	...	...	5	...	...	.....	Unknown
7-17	State of Idaho	8 58	2E	25	25	...	...	210M	1,068.44	Lightning
7-17	Humbird Lbr. Co.	17 58	1E	...	...	...	...	...	.....	Campers

## STATISTICAL DATA ON FIRES DURING YEAR 1922

Date	Ownership	S.	T.	R.	Timbr	Repro	Brn	Slash	Damage	Cost	Cause
7-18		21	56	4W	...	400	...	...	.....	.....	Lightning
7-18	Dalkena Lbr. Co	21	56	5W	...	320	...	...	.....	167.60	Lumbering
7-19	State of Idaho	36	54	3W	160	.....	...	...	50M	79.75	Rancher
7-19	Dover Lbr. Co.	32	59	1E	...	.....	...	...	.....	48.15	Unknown
7-20	Sandpoint Lbr. & Pole	30	59	1E	...	.....	...	...	.....	.....	Lumbering
7-20		18	61	1E	1	.....	...	...	.....	.....	R. R.
7-20	Humbird Lbr. Co.	1	57	3W	...	.....	...	...	.....	.....	Campers
7-21	State of Idaho and others	36	57	2W	...	1000	320	...	.....	81.55	Campers
7-21		3	60	1W	...	.....	2	...	.....	.....	R. R.
7-21	Hope Lbr. Co.	26	58	1W	...	.....	10	...	.....	.....	Unknown
7-21		10	55	3W	...	600	...	...	.....	.....	Rancher
7-23	Dover Lbr. Co.	7	57	2W	20	.....	...	...	20M	85.23	Campers
7-24		7	57	2W	...	15	...	...	.....	85.23	Campers
7-24		36	55	4W	...	.....	3	...	.....	.....	Lumbering
7-26	Humbird Lbr. Co.	17	54	4W	...	200	...	...	.....	49.60	Unknown
7-26	Bonnors Ferry Lbr. Co.	31	61	1E	...	.....	...	...	.....	.....	R. R.
7-27	Humbird Lbr. Co.	15	54	4W	...	.....	...	...	.....	.....	R. R.
7-28	Humbird Lbr. Co.	33	54	4W	15	1000	...	...	150M	587.34	Miscellaneous
7-29	N. P. Ry , State of Idaho	16-21	56	4W	...	660	...	...	.....	414.76	Unknown
7-29	U. S.	11	55	5W	...	100	...	...	.....	184.85	Lightning
7-30	Smith	35	58	2W	...	.....	1	...	.....	59.50	Lightning
7-30	Humbird Lbr. Co.	12	57	3W	...	.....	...	...	.....	.....	Lightning
7-30	Dover Lbr. Co.	22	59	1E	...	.....	...	...	.....	.....	Lumbering
7-30	Humbird Lbr. Co.	1	54	6W	35	.....	...	...	40M	228.65	Unknown
7-31		34	60	1W	...	.....	...	...	.....	.....	R. R.
7-31	Unknown	31	56	4W	...	240	...	...	.....	352.50	Rancher
8-1	McGoldrick Lbr. Co.	26	55	4W	...	.....	...	...	.....	.....	R. R.
8-1	Floyd Satterlee	5	58	1E	...	.....	...	...	.....	.....	Unknown
8-1		18	61	1E	...	.....	...	...	.....	.....	R. R.
8-2	Humbird Lbr. Co.	11	57	3W	¼	.....	...	...	.....	39.89	Campers
8-3		23	56	5W	...	.....	20	...	.....	90.15	Cigarettes

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 Protective  
 Association



## STATISTICAL DATA ON FIRES DURING YEAR 1922

Date	Ownership	S.	T.	R.	Timbr	Repro	Brn	Slash	Damage	Cost	Cause
8-4		19	55	4W	...	...	20	...	...	63.20	Unknown
8-6	Humbird Lbr. Co.	25	57	5W	25	...	375	...	500M	1,625.34	Unknown
8-7	Dover Lbr. Co.	28	59	1E	...	...	...	...	...	...	Lumbering
8-8		23	56	4W	...	400	...	...	...	...	Lightning
8-10	Dover Lbr. Co.	1	56	3W	...	400	...	...	40M	80.62	Rancher
8-15	Humbird Lbr. Co.	32	59	1E	...	...	...	...	...	...	Lumbering
8-18	State of Idaho	36	61	1W	3/4	...	...	...	...	...	R. R.
8-19	Dover Lbr. Co.	20	59	1E	...	40	...	...	...	147.42	Unknown
8-21	McGoldrick Lbr. Co.	36	54	4W	...	40	...	...	...	7.75	Unknown
8-21	Unknown	6	55	5W	2	...	...	18	5M	85.65	Cigarettes
8-22	H. L. Wilbur	33	57	3W	...	5	...	...	...	4.00	Unknown
8-22	Humbird Lbr. Co.	17	54	4W	70	...	...	...	5M	68.10	Campers
8-22	Humbird Lbr. Co.	14-13	59	3W	...	100	...	...	...	829.35	Lightning
8-23	Humbird Lbr. Co.	19	59	1E	...	...	...	...	...	...	Unknown
8-23	Humbird Lbr. Co.	19	59	1E	...	150	...	...	...	222.88	Lumbering
8-23	Humbird Lbr. Co.	33	59	1E	...	500	...	5	...	312.25	Lumbering
8-23	Humbird Lbr. Co.	30	59	1E	...	50	...	...	...	24.15	Lumbering
8-23	Dr. Wenz	34	60	1W	3	...	...	...	...	...	R. R.
8-24	Sandpoint Lbr. & Pole	26	60	1W	...	...	...	...	...	21.35	R. R.
8-24	Humbird Lbr. Co.	33	54	4W	12	...	...	...	25M	132.40	Campers
8-24		26	60	1W	...	...	2	...	...	...	R. R.
8-24	Bonnars Ferry Lbr. Co.	31	61	1E	1	...	...	...	...	...	R. R.
8-24		26	60	1W	...	...	3	...	...	...	R. R.
8-24	Humbird Lbr. Co.	25	55	6W	75	...	...	...	80M	173.80	Campers
8-25		26	60	1W	...	...	3	...	...	...	R. R.
8-25	Bonnars Ferry Lbr. Co.	31	61	1E	...	...	...	...	...	...	R. R.
8-25		33	59	1E	...	...	...	50	...	...	Lumbering
8-26	Humbird Lbr. Co.	2	54	4W	...	5	...	...	15M	...	Cigarette
8-27	Humbird Lbr. Co.	1	57	3W	...	5	...	...	...	48.99	Lightning
8-27		3	60	1W	20	...	...	...	...	40.65	Unknown
8-29	Humbird Lbr. Co.	12	60	1W	...	...	4	...	...	...	Unknown

Pend Oreille Timber Protective Association

## STATISTICAL DATA ON FIRES DURING YEAR 1922

Date	Ownership	S.	T.	R.	Timbr	Repro	Brn	Slash	Damage	Cost	Cause
8-31	Humbird Lbr. Co.	3	60	2W	1	....	...	...	....	.....	Lightning
8-31	Humbird Lbr. Co.	27	59	1E	...	....	...	...	....	.....	R. R.
8-31	Sandpoint Lbr. & Pole SW SW	10	58	1E	...	....	...	...	....	.....	Campers
7-5		19	57	3W	...	....	25	...	....	8.10	Rancher
7-3	Humbird Lbr. Co.	31	55	3W	20	....	...	...	....	93.80	Ranchers
7-30		35	58	2W	...	2	...	...	....	59.50	Unknown

Pend d'Oreille Timber Protective Association



### SUMMARY OF NO-COST FIRES AND CAUSES

Causes—	Lbring	Lightg	R. R.	Br. Burning	Campers	Incendiary	Misc.	Unk'wn	Total
1908.....	6	1	29	20	4	1	8	34	103
1909.....	4	4	74	14	10	3	10	19	135
1910.....	4	..	48	1	9	1	1	14	78
1911.....	4	5	45	8	8	4	5	16	95
1912.....	3	1	1	..	..	..	..	..	5
1913.....	11	1	9	7	3	..	4	10	45
1914.....	1	4	70	15	5	25	..	32	152
1915.....	..	4	9	20	6	16	..	12	67
1916.....	8	8	1	5	14	1	1	8	46
1917.....	5	..	12	50	4	4	..	17	92
1918.....	1	14	6	8	5	4	..	17	55
1919.....	1	10	..	7	3	3	1	10	35
1920.....	9	1	7	2	..	..	2	21	42
1921.....	4	2	11	6	5	3	..	14	45
1922.....	14	3	25	5	7	..	2	17	73

### SUMMARY OF COST FIRES AND CAUSES

Causes	Lbring	Lightg	R. R.	Br. Burning	Campers	Incendiary	Misc.	Unk'wn	Total
1908.....	4	1	7	4	1	1	5	9	32
1909.....	4	..	2	2	7	3	4	13	35
1910.....	9	..	9	6	2	2	1	39	68
1911.....	6	2	1	1	1	2	4	8	25
1912.....	..	..	..	..	1	..	..	2	3
1913.....	5	..	..	..	..	..	1	1	7
1914.....	15	5	2	5	9	4	4	19	63
1915.....	15	2	1	4	4	10	5	18	59
1916.....	..	2	1	2	2	..	1	3	10
1917.....	1	7	1	8	4	15	..	29	65
1918.....	1	17	1	4	2	4	..	15	44
1919.....	3	13	0	3	3	9	..	15	46
1920.....	2	6	..	1	2	..	1	4	16
1921.....	4	2	6	5	4	4	12	10	47
1922.....	10	8	1	8	9	0	3	18	57

Cost fires are those requiring assistance to regular patrol.



## COMPARATIVE STATISTICS

### SUMMARY OF FIRES BY YEARS, CLASSIFIED, DAMAGE AND COST

	No. of Cost Fires	No. No- Cost Fires	Cost of Patrol	Cost of Administra tion	Cost of Fires \$	Member Area	Assessm't Cents	No. of Patrol
1908.....	32	103	\$ 4,230.00	\$1,588.00	2,061.00	300827	.03	14
1909.....	35	135	4,839.00	2,922.00	2,736.00	309321	.02 1/2	16
1910.....	68	78	11,889.00	1,479.00	39,575.00	329772	.13	34
1911.....	25	95	5,430.00	1,563.00	2,035.00	345223	.02 1/2	22
1912.....	3	5	4,044.00	1,788.00	137.00	338094	.02	22
1913.....	7	45	4,417.00	1,272.00	289.00	584302	.01 1/2	23
1914.....	63	152	5,656.00	2,013.00	4,973.00	575824	.04	31
1915.....	59	67	4,706.00	1,642.00	2,621.00	575937	.01 1/4	18
1916.....	10	46	4,808.00	2,238.00	453.00	563881	.02 1/8	27
1917.....	65	92	7,489.00	2,740.00	20,860.00	540453	.07	26
1918.....	44	55	7,774.00	3,165.00	14,604.00	521291	.05 1/2	25
1919.....	46	35	72,705.40	2,564.00	75,545.00	519274	19 1/2	25
1920.....	16	46	5,865.76	3,592.81	18,256.76	509403	.09 1/2	20
1921.....	45	47	5,491.71	2,468.71	17,803.27	271572	.07 3/4	13
1922.....	56	74	8,077.77	1,916.11	18,027.67	263108	.11 1/4	17

COMPARATIVE STATISTICS, Continued

	Fires	Incend.	Cmprs	BshBng	R. R.	Lightn.	Lbrng	Mis.	Unk'wn	Area	M Feet	Total Cost
1908....	135	2	5	24	36	2	10	13	43	.....	.....	\$ 9,275.00
1909....	170	5	17	16	76	4	8	11	32	6705	.....	14,384.00
1910....	146	3	11	7	57	..	13	2	53	50548	125,000	57,024.00
1911....	120	6	9	9	46	7	10	9	24	1767	35	10,358.00
1912....	8	..	1	..	1	1	3	..	2	960	.....	7,475.00
1913....	52	..	3	7	9	1	16	5	11	960	750 Pls.	8,666.00
1914....	215	29	114	20	72	9	16	4	51	11734	800	17,003.00
1915....	126	26	10	24	10	6	15	5	30	7000	719	12,100.00
1916....	56	2	14	7	2	10	8	2	11	208	265	10,307.00
1917....	157	19	8	58	13	7	6	..	46	18678	1,800	36,652.00
1918....	99	8	7	12	7	31	2	..	32	11629	5,839	2,950.00
1919....	81	12	6	10	..	23	4	1	25	55416	37,000	98,824.00
1920....	62	..	2	3	7	11	11	3	25	4535	5,830	37,091.76
1921....	92	7	9	11	17	4	8	12	24	13328	1,634	28,278.22
1922....	130	..	16	13	26	11	24	5	35	10462	1,105	32,111.11



COMPARATIVE AREA OF FIRES BY YEARS

	Fires Under 10 A's.	10 A's or More
1908.....	127 or 94 per cent.	8 or 6 per cent.
1909.....	130 or 75 per cent.	43 or 25 per cent.
1910.....	85 or 58 per cent.	61 or 42 per cent.
1911.....	108 or 90 per cent.	12 or 10 per cent.
1912.....	8 or 64 per cent.	3 or 38 per cent.
1913.....	46 or 88 per cent.	6 or 12 per cent.
1914.....	178 or 82 per cent.	37 or 18 per cent.
1915.....	86 or 68 per cent.	40 or 32 per cent.
1916.....	48 or 85 per cent.	8 or 15 per cent.
1917.....	112 or 71 per cent.	45 or 29 per cent.
1918.....	56 or 56 per cent.	43 or 44 per cent.
1919.....	40 or 50 per cent.	41 or 50 per cent.
1920.....	41 or 66 per cent.	21 or 34 per cent.
1921.....	57 or 62 per cent.	35 or 38 per cent.
1922.....	70 or 61 per cent.	60 or 39 per cent.
Total.....	1189 or 71 per cent.	459 or 29 per cent.

RAINFALL BY MONTHS DURING FIRE SEASON

	May	June	July	Aug	Sept.	Total
1908.....	2.18	1.63	.37	.79	.49	5.46
1909.....	1.70	.86	2.10	.09	1.48	6.23
1910.....	2.31	.68	.43	.27	1.98	5.67
1911.....	4.36	.83	.18	1.20	2.22	8.79
1912.....	2.13	2.51	1.99	3.12	1.31	11.06
1913.....	2.18	2.85	1.51	.82	1.15	8.51
1914.....	1.48	1.39	1.47	.58	1.58	6.50
1915.....	3.70	1.26	1.80	.25	1.69	8.75
1916.....	1.50	2.98	1.57	1.81	1.85	9.71
1917.....	1.64	1.70	.01	.....	.44	3.79
1918.....	1.37	.69	1.35	3.01	.49	6.91
1919.....	2.52	.44	.....	.94	1.29	5.19
1920.....	2.22	1.32	.67	1.07	3.49	8.77
1921.....	.84	1.17	.08	.72	1.14	3.95
1922.....	.68	.18	.45	.84	1.90	4.05
Average.....	2.05	1.36	.94	1.04	1.49	6.88

