Section 4.—Forest Depletion and Increment

Depletion.—The average annual rate of depletion of reserves of merchantable timber during the ten years 1934-43 was 3,150,000,000 cu. ft. Of this total, 73 p.c. was felled for domestic and commercial use and 27 p.c. was destroyed by fire and pests. Of 2,312,000,000 cu. ft. utilized, 37 p.c. was used in sawlogs, 31 p.c. for fuel, 28 p.c. for pulpwood, and 4 p.c. in miscellaneous products. Between 75 and 80 p.c. of the total cut was of softwood species. Losses by fire averaged 338,000,000 cu. ft. annually, and insects and tree diseases destroyed about 500,000,000 cu. ft.

Forest Fires.—Fire losses in 1944 were somewhat higher than the average for recent years. The fire season was particularly severe in New Brunswick and Nova Scotia, whereas in Ontario and Saskatchewan losses were considerably below normal.

Summary statistics of fire losses are given in Tables 2 and 3, while fuller details by regions are given in the Annual Report of the Department of Mines and Resources for the fiscal year ended Mar. 31, 1945.

2.—Forest-Fire I	Losses in	Canada, 19	4, with Ten-Year	Averages, 1934-43
------------------	-----------	------------	------------------	-------------------

Item	Average 1934-43	1944	Item	Average 1934-43	1944	
	\$	\$		\$	\$	
Fires under 10 acresNo. Fires 10 acres or over"		3,943 1,877	Estimated Values Destroyed—			
Totals, FiresNo.	5,542	5,820	Merchantable timber	2,470,697	3,083,944	
Area Burned— Merchantable timberacre	536,488	503,764	Young growth	872,882	763,671	
Young growth" Cut-over lands"	647, 196 350, 928	401,017	Cut-over lands	258,911	787,880	
Non-forested lands "	813, 449		Other property burned	372,906	1,449,222	
Totals, Area Burned "	2,348,061	2,403,061	Totals, Damage	3,975,396	6,084,717	
Merchantable Timber Burned—			Actual cost of fire fighting	818, 108	1,328,338	
Saw timberMft.b.m. Small materialcord	736, 949 2, 360, 992			4,793,504	7,413,055	

3.—Forest Fires in Canada, by Causes, 1914, with Ten-Year Averages, 1934-43

Cause	Averages 1934-43		1944	
	No.	p.c.	No.	p.c.
Camp-fires	1,008	18	805	14
mokers	925	17	1,077	18
Settlers	854	15	816	14
Railways	256	5	838	14
ightning	983	18	846	15
ndustrial operations	149	3	208	4
ncendiary	348	6	172	3
Public works	55	1	48	1
Miscellaneous known	442	8	593	10
Unknown	522	9	417	7
Totals	5,542	100	5,820	100

Increment.—Practically all of the annual depletion or drain on the forest is concentrated on the 435,000 sq. miles of productive forest which is classed as accessible, and replacement of normal depletion by this area alone requires an 50871—17½