Section 4.—Forest Depletion and Increment

Depletion.—The average annual rate of depletion of reserves of merchantable timber during the ten years 1932-41 was 3,825 million cu. ft. Of this total, 69 p.c. was felled for domestic and commercial use, and 31 p.c. was destroyed by fire and pests. Of 2,653 million cu. ft. utilized, 33 p.c. was used in sawlogs, 32 p.c. for fuel, 30 p.c. for pulpwood, and 5 p.c. in miscellaneous products. Between 75 and 80 p.c. of the total cut was of softwood species. Losses by fire averaged 472 million cu. ft. annually, and insects and tree diseases destroyed about 700 million cu. ft.

During 1941, the last year of the period under review, depletion totalled 5,099 million cu. ft. and was very much greater than the average for the decade, due, in part, to increased utilization to meet war needs (3,354 million cu. ft.) and in part to abnormally severe fire losses (1,045 million cu. ft.).

Forest Fires.—Considering Canada as a whole, the fire season of 1942 was favourable and the losses were below the average for the previous decade. However in British Columbia, Saskatchewan and Nova Scotia the losses were considerably above the average.

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, 1943.

2.-Forest-Fire Losses in Canada, 1942, With Ten-Year Averages, 1932-41

Item	Average 1932-41	1942	Item	Average 1932–41	1942
Fires under 10 acres No. Fires 10 acres or over "		3,437 1,354	Estimated Values Destroyed— Merchantable timber	\$ 2,954,811	\$ 1,169,923
Totals, Fires No.	5,985	4,791	Young growth	920,041	1,011,038
Area Burned—	5607500 000		Cut-over lands Other property burned	320,786 326,698	118,737 617,035
Merchantable timber. acre Young growth" Cut-over lands"	587,112 670,947 440,203	318,435 470,022 126,414	Totals, Damage	4,522,336	2,916,733
Non-forested lands "	730,397	923,600	Actual cost of fire fighting	855,786	633,448
Totals, Area Burned "	2,428,659	1,838,471	Totals, Damage and Cost	5,378,122	3,550,181
Merchantable Timber Burned—				1	5
Saw timber M ft. b.m. Small materialcord	784,925 2,567,294	253,420 906,600			

3.-Forest Fires in Canada, by Causes, 1942, With Ten-Year Averages, 1932-41

Cause	Average 1932-41		1942	
	No.	p.c.	No.	p.c.
Samp-fires.	1.130	19	745	15
mokers	939	16	884	18
ettlers	1,015	17	602	13
tanways	236	4	379	
Aghtning	999	17	996	2
dustrial operations	139	2	147	
ncendiary	450	7	147	
ublic works.	58	1	53	
liscellaneous known	417	7	465	10
Jnknown	602	10	373	
Totals	5.985	100	4.791	100