

## CANADIAN FIRE RECORD.

**Fire at Carson, B.C.**—On Oct. 29th, a fire destroyed the large warehouse and packing house of Grand Forks Co-operative Fruit Growers' Association at Carson. Loss about \$10,000, partly insured.

**Fire at Truro, N.S.**—On Oct. 30th, a fire destroyed five thousand feet of sawed lumber, property of W. D. Hill.

**Fire at Halifax, N.S.**—On the 5th instant, a fire occurred in a Hollis Street building, occupied by A. Milne Fraser, P. J. Hamilton and the Canada Cafe and families on the top floor. Loss about \$20,000.

**Fire at Lakefield, P.Q.**—On the 4th instant, fire broke out in Ball Bros.' garage, which was destroyed with one auto. Loss about \$2,500.

**Fire at Lambton Golf Club, Toronto.**—On the 7th instant a fire broke out in the coal sheds of the Lambton Golf Club and totally destroyed the sheds and garage. Spontaneous combustion is stated to be the cause in the coal in the bunkers in the shed. Loss about \$15,000.

**Fire at Venne, Sask.**—On the 11th instant, a serious fire occurred in a large general store, further particulars not to hand.

## CLEAN THE FURNACE—SOOT WASTES HEAT.

Soot has an important bearing on the conservation of heat. While much has been said and written regarding the necessity for economy of fuel, this question of soot, equally important from the householder's standpoint, has been rather overlooked. Since the coal supply is limited, it is absolutely essential that the maximum quantity of heat obtainable from the fuel be utilised. An examination of many heating systems shows that considerable quantities of soot have been permitted to remain deposited on the interior surfaces of hot-water furnaces, preventing the heated gases from the fire-pot from accomplishing their duty of imparting the ultimate amount of heat energy to raise the temperature of the water in the boiler. The seriousness of this loss is demonstrated by the accompanying table:

| Loss in Conductivity of Boiler Plate Due to Difference in Thickness of Soot. |  | Poss P.C. |
|------------------------------------------------------------------------------|--|-----------|
| Thickness of Soot.                                                           |  |           |
| Clean . . . . .                                                              |  | 0.0       |
| 1/32-inch . . . . .                                                          |  | 9.5       |
| 1/16-inch . . . . .                                                          |  | 26.2      |
| 1/8-inch . . . . .                                                           |  | 45.2      |
| 3/16-inch . . . . .                                                          |  | 69.0      |



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