clearing of the head townships. From fairly definite evidence at points in Waterloo Township the decrease in the past fifteen years appears to be fully 40% of the minimum in 1890. At Galt (total drainage 1,325 sq miles), and farther down the river the decrease appears not to have been so much. The Speed River empties into the Grand above Galt and the Nith at Paris. (Total drainage 2,020 sq. miles.) The drainage areas of these tributaries have not changed so much in recent years.

The proportion of woodland in the drainage area in 1901 was, by townships, as follows:—

Melancthon	16.2	North East Hope	10.4
Arthur	6.8	Wilmott	10.2
West Luther	7.2	Waterloo	9.8
East Luther	5.3	Puslinch	6.9
Amaranth	1.9	Blandford	12.4
Burford	11.9	Blenheim	8.5
East Garafraxa	6.8	North Dumfries	12.
Maryborough	14.3	South Dumfries	5.4
Peel	14.8	Beverly	11.8
Pilkington	6.5	West Garafraxa	1.4
Nichol	15.1	Burford	11.9
Eramosa	10.7	Oakland	17.3
Erin	5.8	Brantford	2.7
Mornington	10.8	Onondago	9.
Wellesley	15.4	Townsend	12.8
Woolwich	13.7	Tuscarora	not given
Guelph	7.6	Oneida	11.1
Nassagaweya	21.1	Cayuga	4.4

For the whole of the drainage area the percentage of woodland is 9.85.

The main source area of the Grand River may be considered as extending to Elora, above Pilkington Township, with a surface of about 425 sq. miles. The snowfall throughout this section is very great. At Fergus one snowfall year is recorded as 135 in., and a number of years are over 100 in. Formerly the forests and swamps retained the snow and let it off gradually. The country from the north of Melancthon to almost the south line of Luther Townships, an extensive plain, is now of hard surface, largely, though not mostly, in grazing land which can be traversed across country independently of roads in almost any direction. A few warm days in February or March start the run-off with a rush, and it takes but a short time for the accumulation of snow to disappear.