

Experiments have been conducted at the College in sowing Alfalfa in the autumn and in the spring, both with and without a nurse crop. The nurse crop used in the autumn was winter wheat, and that used in the spring was oats. As the result of two distinct experiments, each extending over a period of two years, it was found that the spring sowing gave the best results. The Alfalfa, which was sown in the spring alone, gave an average in the second year of the test of 17.2 tons, and that sown with oats, an average of 16 tons of green crop per acre. The Alfalfa sown in the autumn with winter wheat was partially, and that sown without any nurse crop was very badly winter killed.

In another experiment, spring wheat, barley, and oats were used as nurse crops. Five plots were sown with each kind of grain, thus making fifteen plots sown with grain and Alfalfa seed in the spring of 1899. The average total yields of green Alfalfa per acre obtained from the plots on which the nurse crops had been sown were as follows in each of the years 1900 and 1901:

Nurse Crops.	1900	1901
Spring Wheat	16.3 tons.	24.7 tons.
Barley	13.7 "	22.2 "
Oats	9.5 "	18.3 "

In this experiment the spring wheat proved to be the best, and the oats the poorest crop with which to sow Alfalfa. The oat crop, especially if the seed is sown thickly, has a tendency to smother out the young and tender plants of Alfalfa. All nurse crops used with Alfalfa should be sown quite thinly.

In still another experiment, Alfalfa was sown alone and with one bushel of barley per acre. The test was made in duplicate. The average yield of green Alfalfa per acre during the three following years for each of the plots in both of the sets was as follows:

Sets.	Alfalfa seed sown with	Green Crop.	Hay.
		tons.	tons.
No. 1.....	Nurse Crop of Barley.....	20.9	5.4
	{ Nothing.....	20.5	5.3
No. 2.....	Nurse Crop of Barley.....	23.6	6.1
	{ Nothing.....	21.3	5.5

This experiment was started in 1895 and finished in 1898. We now sow the Alfalfa seed in the spring of the year and usually with about one bushel of barley per acre. From this system excellent satisfaction has been obtained.