

Rotation Farm. Summary of Yields, 1912-1931.

	No. Years	Manure - 20 tons	Manure - 10 tons and Fertilizers	Fertilizers Alone
Corn (Fodder)	9	11.4 tons per acre	11.4 tons per acre	10.1 tons per acre
Corn (Ears)	11	2.0 " " "	1.9 " " "	1.6 " " "
Mangels	19	23.7 " " "	21.4 " " "	16.2 " " "
Swedes	17	22.8 " " "	22.4 " " "	19.2 " " "
Oats after Corn	19	50.7 bus. per acre	49.0 bus. per acre	43.3 bus. per acre
Oats after Swedes	19	45.6 " " "	49.8 " " "	39.9 " " "
Barley after Mangels	18	38.0 " " "	36.2 " " "	32.2 " " "
FIRST YEAR HAY:-				
after Corn	20	2.9 tons per acre	2.7 tons per acre	2.5 tons per acre
after Swedes	20	3.0 " " "	2.9 " " "	2.6 " " "
after Mangels	20	2.9 " " "	2.8 " " "	2.5 " " "
SECOND YEAR HAY:-				
after Corn	10	2.2 tons per acre	2.1 tons per acre	1.8 tons per acre
after Swedes	10	2.0 " " "	1.9 " " "	1.7 " " "
after Mangels	10	1.9 " " "	1.7 " " "	1.5 " " "

On account of soil variation it has been determined that differences of less than seven per cent cannot be considered as significant. The differences between manure (20 tons) alone, and manure (10 tons) along with fertilizers are not significant in any case. In all cases fertilizers alone have given lower yields than either manure alone, or manure and fertilizers combined. These differences are, moreover, significant in most cases.