TABLE 1—Average Total Yield Per Tree of McIntosh on Malling Rootstocks, 1939-48. (Yield in pounds).

Year Planted	I	IV	V	VII	XII	XIII	XVI
		1551			1137	1083	1231
				1144			
						603	

*Trees mulched with hay mulch since planting.

grown under the same cultural practices have borne an average of 1551 and 1475 pounds per tree, respectively. Total yield of 12-year old McIntosh trees on stocks I, VII, XII, XIII and XVI have been surprisingly uniform, each stock yielded an average total of over 1000 pounds, but it must be remembered that trees on XII have a larger bearing surface and require more space than trees on VII and V.

Cultural practices have influenced yields. Thus trees planted in sod and grown without mulch have produced less per tree than trees mulched with hay mulch since planting.

Yield differences have varied with varieties and there is an indication that certain variety rootstock combinations are outstanding, such as Cortland and Delicious on II and VII. High yielding stocks for the variety McIntosh are IV, I, II, VII and XVI; whereas, for Cortland XIII may be added to the list. Malling II and VII may be given preference for Red Delicious, whereas Golden Delicious is doing well on II, I, VII and XII. Although IV has given a very good yield record, it is doubtful if this rootstock should be recommended since the root system is brittle and trees in wind-exposed locations, if not supported, are easily blown over.

BREEDING STRAWBERRIES FOR VITAMIN C

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There is a wide variation in the Vitamin C content of strawberries. New varieties resulting from a breeding program will likewise show considerable variation and the fruit may contain higher or lower amounts than either parent. However, there is a tendency for the offspring to contain a high vitamin C content if the parent varieties were high in this substance.

The authors conclude that it is feasible to breed for high ascorbic acid (vitamin C) content of strawberries, and by breeding, to increase greatly the already high value in this fruit.

W. P. J.