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After selection and preparation of a site for the new orchard, the next thing to consider is . . .

ORCHARD PLANTING SYSTEMS

By K. T. WHITELY, B.Sc. (Agric.), Adviser, Horticulture Division

HAVING decided on the location of the orchard and the types of fruit trees to be planted, the grower is still faced with the problem of layout of the trees in the new orchard.

The most common arrangement of trees in orchards in this State is the square system, but there are other alternatives, and it is worth considering whether another pattern might be more suitable to your particular situation and circumstances.

Other planting patterns are the rectangular, the diagonal, the hexagonal or triangular, and the contour system.

Square System
In the square system the trees are set out in squares, each tree occupying the corner of the square. This is the usual pattern and orchard operations are easily handled in this design.

Although they have not been used in this State to date, this pattern also allows the grower to plant “filler” trees, or trees for short term cropping. These can be planted either in one direction only, giving a rectangular pattern, or in both directions, giving a half-scale square pattern. In other words if your final planting distance on the square was decided to be 20 ft. you could initially plant in a 10 ft. x 20 ft. pattern and remove the intervening trees later (having had a number of years’ production from them) to leave the desired distance between trees of 20 ft. x 20 ft.

Rectangular
The rectangular system has the trees in a rectangular pattern rather than a square, and while leaving the usual width between rows allows close planting along the row. This is of interest in some of our districts where certain planting distances are generally held to be necessary, but closer planting has never been discredited by practical trial.

Diagonal
The diagonal or quincunx system also has the trees in the square or rectangular
Besides preventing or greatly reducing erosion this system makes it more feasible to grow orchards on moderately hilly country and allows conservation of water in the lands between the tree rows. It must be realised however, that some slopes are so steep that they cannot successfully be planted using any system.

The contour system involves planting the trees across the hill in rows which are nearly horizontal, and are referred to as contour rows.

As a result of cultivation across the hill sides, or by special provision, contour drains or banks develop which catch excess runoff and channel it out of the

Contour Planting

Where erosion is likely to be a real problem serious consideration should be given to the contour system of planting.
The contour system, the planting layout with soil conservation as a main consideration. This system could be considered in many of the cases of hillside planting now being carried out in this State.

orchard. A catchment waterway down the side of the orchard is necessary to further remove the water emptying from these drains.

Because the pattern of this layout is not as symmetrical as those mentioned previously the number of trees per acre is often reduced, but where the system is warranted benefits from it far outweigh the disadvantages.

It can be seen then that besides the generally used square layout of orchards there are several alternative methods which can be used, each with its various advantages and disadvantages. By and large the selection of any of these plans will depend on the kind and variety of fruit, the topography of the land, and the preference of the individual. But if you intend to plant or replant an area of fruit trees it would be worth the trouble of contacting your local Department of Agriculture Fruit Officer to discuss the matter of planting pattern with him.

SPORTS PAVILION FOR MURESK

Muresk Agricultural College old boys are planning to donate a sports pavilion to go with the College's new oval.

The pavilion, which has already been designed, will incorporate change rooms, tea rooms, and seating for 200 spectators. It is expected to cost about £6,000.

To raise this money the Old Boys' Association is conducting an appeal for funds and has contacted 600 of the College's 800 ex-students. Old Boys who have not been contacted and others who are interested in the appeal may contact the Association, c/o P. C. Kerr and Associates, St. George's Terrace, Perth.
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