

crosses of this kind, and that no undesirable qualities can be eliminated.

Nevertheless, it indicates what crosses to avoid. It also shows the danger of growing a species and its variety in close proximity if they hybridize easily. Thus if a blue and a white flowered variety are growing side by side impurities are sure to occur in the seeds of both. Of course the white variety can be purified readily, for on sowing the seeds the hybrids will reveal their presence in the crop by their blue flowers; but it is different with the species, for the blue flowers of the hybrids will pass undetected among the blue flowers of the species.

From a theoretical standpoint the discovery was of tremendous importance. It

was a beginning of the unravelling of the difficult problems of hybridization. It showed how new types may arise in undisturbed nature. It opened up a line of experimental work on heredity and evolution, the first valuable experimental contribution to these subjects since the time of Darwin. It indicated methods of research which if prosecuted promised a flood of light on the process of evolution.

Research on hybridizing has become active in recent years. Every earnest experimenter can help towards their solution if he employs careful methods. But it must be pointed out that if the methods are to be of any value they must be statistical and kept with great care.

## HOW TO MAKE CITY GROUNDS ATTRACTIVE\*

MAYOR J. A. ELLIS, OTTAWA, ONT.

**B**ESIDES trees and climbers, shrubs are a very important feature of landscape gardening. Unfortunately we in Ottawa are a trifle too far north for many shrubs which thrive and grow most luxuriantly a little farther south. Still, we have

quite a sufficient list to choose from. The best shrubs for the Ottawa district are *Hydrangea Paniculata Grandiflora*, *Philadelphus Coronarius* (Mock Orange or Syringa), *Viburnum Opulus Sterilis* (Snowball), several spiracae, of which *Van Houttei* is as



**A Mass of Bloom Hiding a Fence in a City Garden**

A portion of the garden of Mr. J. E. Northwood, one of the winners in the Lady Minto garden competition, held in Ottawa for several years, is here shown. The flowers to be seen are a collection of some of the easiest grown and freest flowering plants; such as *petunias*, *gladiolus*, *coreopsis*, some of the better class of perennial *phlox*, and others, all of easy culture and effective colorings.

\*Continued from the May Issue.