and autumn, and even in winter, for the carnution, where it does well, has a fine color value of foliage in winter, which makes it most usoful to all who care for good color in their gardens. What carnations are the best for the

open air? The kinds of carnations popular up to the prosent day are well known by what is seen at the Canadian shows, and in the florists' porio dical, liko the Floral Magazine, Harrison's Cabinet, and, indeed, all similar periodicals up to our own day, when I began to insist that all flowers should be drawn as they are. Tho artist should never be influenced by any "rules' or "ideals" whatever, but be allowed to draw what he sees. This all conscientious art.sts expect, and it is the barest justice. If we succed in raising what we consider perfect flowers, lot the artist see them as they are, and draw thom as he sees them. Otherwise we have the confusion of drawing impossible hybrids between what he sees and what he is told is perfection in a flower. It was the want of this artistic honesty, so to say, which has left us so worthless a record in illustrated journals of the past, where the artist was always told to keep the florist's "ideal" a to what the flower should be. Hence the number of plates of flowers of many kinds, all drawn with the compass and quite worthless as a record l (Gardeniny.)

EVER-BLOOMING ROSES.

The class of over-blocming roses is what the masses should depend on for sum .er roses, writes Eben E. Rex-ford in a valuable article on "The Favorite of the Flowers" in the May Lalies' Home Journal. They are mostly teas, Bourbons and Noisettes. They begin to bloom shortly after platting, and continue to flower until the coming of cold weather. If the branches are cut back, from time to time, and a good soil be given them, they bloom very profusely. While not as large as the hybrid perpetuals they are quite as rich in color, and as sweet, and much more free in flower ing qualities. They are so easily grown that they should be selected by those who love roses, but do not feel equal to the task of attempting to grow the other varieties. If you give them a good soil, and keep the old flowers cut off, you need not fear of failure with them No other flower repays you so richly, because no other flower is so beautiful. With a bed of bre or six feet square you can have all the flowers you want throughout the season, for v ses in the house, for personal adornment, and to give to your friends, without, at any time, robbing the bushes who ly of flowers.

FACTS CONCERNING APPLE SPOT.

The main points to be remembered in connection with this malady are that it is caused by a minute parasitic fungus, a low form of plant life, which by living on the leaves and fruit of the apple, prevents assimilation in th former and the development of the latter. It is not so generally known that the same fungus attacks both the leaves and the fruit. A few facts both the ply constructed one. If. Employ live and his assistants have accomminated imagine, which would confront them leaves and the fruit. A few facts to riably whole leaves of foundation-be remembered in connection with comb for the brood frames, and only successful treatment are : 1. That it is despartances in the surplu- boxes. This perpetuated by spores, which take the will greatly a-sist in preventing false drone cells in the brood-chamber. (b) serve that every square foot of the kind available. (b) serve that every square foot of the kind available. (b) serve that every square foot of the kind available. (b) serve the alkalies, although

young branches. 3. That these germinate in the spring as soon as conditions are favourable, which is usually about the time the young foliage is developing. The officacy of the cop-per-salt remedies have now come to be generally recognised, and the fruit grower who does not use these reme dies is neglecting a simple precaution in direct opposition to his best into rests. Ammoniacal copper carbonato and diluto Bord aux mixture (half strongth) are now the leading fungi-cides for apple and pear scab and grapo mildew.

JOHN CRAIG,

Horticulturist, Experimental Farm, Ottawa.

THE BEE-MASTER.

Advice to beginners in Apiculture.

In order to make a good start, and to succeed with your bees from the very beginning, I advise those who intend to keep bees to follow the subjoined directions :

1. Go and see the best hiveries and the most successful bee-masters you can hear of; adopt their opinions and their method of treating their boes. 2. Buy, or borrow, some one or more of the best treatises on apiculture. First, I can recommend "The A. B. C. of Bee-keeping" by A. J. Koot, if you wish to be successful from the commencement. 3 Subscribe to one or two of the best Bee-keeper's periodicals, such as "The American Jour-nal of Apiculture," and "Gleanings in the management of Bees." 4. Get a good fumigator-Clark's or Bingham s-and a good veil of silk-net, &c. to guard against the stings of the bces. 5. Go to some trustworthy bee-master's, in the month of May. but take care that he has no rotten brood in his hives. Buy a hive of bees, black or Italian, which ever you can get. If of the black kind, try thom first, and if, aftor a fair trial, they do not please you, kill the queen, and introduce some good Italians. If the wings of the queen be not cut already, get the man from you whom buy the hive to cut them for you. 7. Now, settle your plans and the way you mean to treat the bees, and adhere firmly to hem, doing the work promptly and at the right time. 8. Do not allow more than one swarming—in other words, do not try to do more than double your stock overy year. 9 When your bees swarm, if the wings of the queen bee are cut, transfer the old hive to a fresh site, and in its place put an empty hive. Look out for the queen on the ground before the entrai ce to the hives (keep the grass land bare of grass in that spot for that purpose) through which the swarm gets out; catch hor and put hor in a cage, and when the bees find that their queen is lest they will rethat their queen is lost, they will re-turn to the place where the old hive

used to stand, and walk into the new When plenty, of them have got une. in, let the queen go in among them. 10. Uso the simplest and most perfect improvements. and the strongest made hives, with the least complicated mechanism about them. I should advise you to begin

saved. 12. Cut the wings of your the station people as mere evidence young queens after coition, or leave of "youngness". Experience will them uncut until next spring; then, cut off one wing, which will show that your queen is a yearling, and the When your quoin is a yearing, and the Wing. This will show that she is a 2 year-old. Later in the season, re-place hor by a young queen : the laying of eggs will be the better for

the change. From the American Bee-Keeper. (From the French.)

J. B. ST-MARO.

Manares.

EXPERIMENTS ON SWEDE.

The bulbs were weighed after the roots and tops had been removed.

No. of Plot.	Manuro por acro.	Cost per acre			Woight of Swedes per acro.		
11. 111. 1V. V. VI. VII. VII. IX.	No manure 5 cwt. Superphosphate. 1 cwt. Nitrate of Soda 5 cwt. Superphosphate 5 cwt. Superphosphate. 5 cwt. Kainit 1 cwt. Nitrate of Soda 4 cwt. Phospho Guano 2 cwt. Kainit 4 cwt. Phospho Guano 2 cwt. Superphosphate. 4 cwt. Basic Slag 1 cwt. Nitrate of Soda 7 cwt. Basie Slag 1 cwt. Nitrate of Soda 5 cwt. Superphosphate. 1 cwt. Nitrate of Soda 5 cwt. Superphosphate. 1 cwt. Nitrate of Soda 5 cwt. Superphosphate.	£ 1 0 2 1 1 1 1	я. 4 14 9 -1 19 -3 4 6	d. 9 0 0 0 9 9	Tons 13 24 23 25 26 36 28 27 26	cwt. 19 13 0 1 11 12 17 4 16	
<i>2</i> 2.	1 cwt. Nitrate of Soda	1	8	9	25	11	42
XI.	No Manure				14	U	7

this experiment or in that of the pre-grind the other to a fine meal, and vious year, on swedes.

MR. BINNS asked his soil what it cases where bone bu ning is econo-needed to grow a good crop of straw (cases where bone bu ning is econo-berrics. "Nitrogen!" was the answer mical because of the great cost of overv time. See what he got by giving (crushing bones with ordinary tools. every time. See what he got by giving the soil what it needed? You never heard of soil so ugly that it would not answer a civil question about fertili-1: will go into details too and sers tell whether clover or nitrate is the cheaper form of nitrogen. It may prove, even in tur off Washington, that (the latter is the cheaper.

No farmyard manure was used in similar bones-burn one to ashes and then apply heat in the form of steam. The steamed bones will be twice as valuable as the bones a.h for imme-MR. BINNS asked his soil what it diate use. At the same time there are

"FACTS FOR CAROLINA FARMERS."

The Charleston News and Courier in a quiet but ironical way pokes fun at the bulletin reports of the South Carolina Agricultural Experiment Station, a copy of which it received PLOTS. HENRY STEWART comments recently containing three articles on on the fact that some of the experi- colton seed meal. The News and ments station teachers declare that Courier gives extracts as examples of culture by plots cannot be depended the contents of the bulletins. These upon for accurate results, and that ex- extracts deal to an extravagant de-perimen. made on such plots are not gree in "big dictionary works," abs-of general value. This comes as a true scientific terms and phraseology most unsatisfactory comment on the quite intelligible to a learned chemist, 50 years of experimenting that has yet to those who are not analytical been going on at the Rothamsted Sta-tchemists, but simple plain farmers, tion in England, where Sir J. B. Lawes they present the same difficulties, we with a dove tailed hive, or some sim- tion in England, where Sir J. B. Lawes, they present the same difficulties, we ply constructed one. II. Employ inva and his assistants have accomutated magine, which would confront them

youngness". Experience will teach them batter."

1

BONES

THE R. N.-Y. has often advocated the burning of boncs as a cheap and easy way of reducing them to a proper condition for use as a fertiliser. Thoro are cases where burning is advisable chiefly because this is about the only way some farmers can get them into a fine meal or powder. As between a whole bone and bone ash, the latter is preferable. but if the whole bone could be crushed or ground into a fine meal without burning it would be worth far more for fortil'sing. It is a fact that bone ash is very slowly sol-uble as compared with a superphos-phate or fine raw bone. Take two