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GARDEN NOTES

THE KITCHEN GARDEN.

Get in all kinds of winter greens, such as broccoli of kinds. These are the kinds that come in for cutting from late autumn until late spring; also savoys, Brussels sprouts, curlies, kale, and cabbage to come in for cutting before any of the former-named kinds. It must be borne in mind that the planting season for the above will not last much longer, so no time should be lost in getting them in. No better place can be got for them than on ground where early potatoes have been lifted. on no account should you plant (or rather, replant) on ground which has been previously cropped with the capbage or brassica of any kind, or assuredly the latter will suffer thereby. Nothing brings on club-root quicker than the frequent planting of the brassicas on the same ground. I have frequently pointed out the advantages gained by the careful attention to what is termed the rotation of crops-that is, for the cabbage family to follow on peas, beans, carrots, and onions, but never after turnips. Now, for this district this is quite late enough for getting in the last sowing of peas, and the dwarf early kinds should be used for this late sowing. Sow for succession lettuce and radishes, also parsley for winter use.

THE ROSE GARDEN.

Autumn-flowering roses now require a liberal supply of liquid manure, and no better time can be got than immediately after rain. Where it is undersirable to use liquid manure, good guano, liberally used and well watered in, will make an excellent substitute. Remove faded flowers and seed capsules. Climbing roses will now be making rapid growth by pushing out strong shoots from the main stem and base of the plants. If these are not required for future training -for instance, on a well-furnished arch or pillar-remove them by cutting them back to within a foot of the base, but on no account remove them if room can possibly be found for them, as much finer flowers and larger trusses are got from this strong young season's growth than from the old wood. Better to remove all old, weak growth, and replace them with the young and vigorous wood; in fact, for low trellises it is better to remove all the old wood annually-that is, if sufficient young wood is made to replace the old. The sooner after the flowering season is over that this is done the better, as every encouragement is thereby given to the development and ripening of those shoots. Under such conditions a very fine show of bloom may be expected.

THE FLOWER GARDEN.

Gladiolas should now be making strong growth. Where good large flowers for show purposes are desired attention to feeding with liquid manure and individual staking and tying must be attended to. When the flowers are beginning to show colour shading should be given them. Some growers go to a great deal of trouble when growing for exhibition. For instance, in shading some use the long glass-fronted cardboard box and nail them on to stout stakes, cut out one end. When the flowering-spike begins to show colour this box is carefully pushed down over the flower, to steady the box. As the lower flowers open a small piece of paper is pasted over the glass at the bottom, to act as a shade, and so on up to the top, as the flowers open up the stem. know, the lower flowers open first, and if these were not shaded or protected in some way, in all probability the lower flowers would be done before the upper ones were properly out; therefore they would be spoilt for show purposes Sweet peas will be greatly benefited by frequent waterings with liquid manure. If a continuous blooming be desired, and the seed is a secondary consideration, then by all means remove the stems as they go out of flower. By this means finer flowers are obtained, and a longer period of flowering also.

As the time for layering carnations is round again, a word or two upon the subject will not be out of place. Generally speaking the best time for layering carnations is just as they are going off flowering. In places where frost is severe carnations should be in early, or they partly lift and the soil opens up, to the injury of the plants. If they are in early frost does not have the same effect. Proceed, then when ready, by surrounding the plants with rich sandy or grifty loam; remove any leaves which may be in the way at the base of the young shoot; make a cut with a sharp knife through a joint apwards, and about halfway through the stem; peg down firmly with small hooks made of twigs off branches or with bent wire; keep the soil moist by watering occasionally if necessary.

MOTORING NOTES.

THE LIFE OF THE CAR.

The life of the average car is often figured at three to five years, but as automobiles have gone into the hands of those of smaller and smaller means, the average annual mileage run has greatly diminished, and the average life of cars measured in years has correspondingly increased. The smallness of the number of cars scrapped in the typical year shows that the life of the average car is eight years or more. In 1919, for example, the United States produced 1,974,016 cars and trucks, whereas the gain in registration during the year ended December 31 was only 1,434,909. Of the remaining 539,107, exports represented 83,454, so that the balance of 455,653 doubtless represented the numbers of cars and trucks worn out and scrapped. But this 455,653 motor-vehicles was equivalent to only 7 per cent. of the average number in service for the year; so that if one took 1919 as a guide, he would have to reason that since only 7 per cent per annum are worn out, the life of the average car is 14 years. However, the scrapping in some years has run as high as 13, 14 or 12 per cent.; and taking recent experience as a whole, it indicates an average of about eight years.

THE MOTOR CYCLE'S FUTURE.

Now that the former British and German motor-car owner has to be content with the more modest motor-cycle, we may look for a considerable development along the lines of general utility and cheapness, says a writer in a British technical review. Before the war the tendency of the motor-cycle, under American influence, was towards increased weight and horse-power, and consequently complexity. Now, however, the chief considerations are safety, lightness, and simplicity to meet the requirements of the average man, who wants a cycle that will start up without causing him undue exertion, that can be lifted up and down steps, and is not prohibitive in price or upkeep. The lines on which improvements should proceed are, above all, towards simplification and comfort. The belt drive, a fruitful cause of breakdown, must be eliminated, the various parts simplified and their number reduced, the lighting system should be made as elementary as possiblee, and all complicated control on the handle-bars suppressed. Special care must be given to the brakes, and the saddle should be made adjustable to the rider's comfort. Another paramount necessity is that wheels should be made easily removable, in view of rendering the repair of punctured tyres as simple a matter as possible, and there is plenty of scope for improvement in the tyres themselves. High speed is not required, therefore the engine can, and should, be as light as is compatible with reliability. The development of the motorcycle as the plain man's vehicle also promises a future for the auto-wheel and

SILENCERS THAT CHOKE UP.

There is one source of overheating and loss of power that is frequently overlooked and it is assumed that the cause is either weak mixture or incorrect ignition timing. In many cases it is not suspected that the silencer may be severely throttled by partly burnt carbon which year gradually restricts the area of the holes in the baffle plates. Every car owner who is anxious about keeping his car at the highest pitch of efficiency should make a point when he takes delivery of the car of finding out the construction and method of taking down the silencer. Some manufacturers, unfortunately, do not pay any particular regard to the accessibility of the silencer, though it is a fitting that needs some attention at least once in 3,000 miles, if undue back pressure is to be avoided, in fact, it may be said that 2.000 miles is as far as an average silencer should be run without attention, if it be made on the drilled baffle plate principle. There are, however, other principles by means of which choking up and throttling are greatly reduced, hence the advisability of finding out how the silencer is made. That much abused device, the exhaust cut out, is quite a useful attachment for testing a silencer from time to time. Ordinarily when a silencer is in good condition the opening of the cut-out should make no difference to the speed, but in proportion as the silencer is throttled the speed will be increased. It has been suggested that a small pressure gauge permanently connected to the silencer would be useful, as thereby any serious increase in pressure would at once call attention to the fact

that the silencer required cleaning.

SCIENCE NOTES.

WIRELESS RESEARCH IN INDIA.

Upon completion of the research work, which is being done in India by a staff of scientists in order to find means of overcoming the meteorological obstacles which interfere with the proper working of wireless telegraphy in India during certain seasons of the year, there will be a great extension of the wireless system in that

THE MODERN UP TREE,

Sir Ray Lankester, in his popular science notes, has made us familiar with the deadly nature of that particular creeper known as the modern upas tree, which has been shown to be the cause of many hitherto mysterious illnesses in persons living where this creeper grew. The plant is a species of Rhus, and is known in America as the "poison ivy." As in many popular names, the plant neither resembles nor is related to the plant after which it is named. Many people regard themselves as immune to the influence of this homely-looking plant, and Drs Sweet and Grant, of the Public Health Service, U.S.A., have investigated such cases. The conclusion apparently is that no one is really immune, but that there are varying degrees of susceptibility to its poisonous influence. A man may resist it many times, and then fall an easy victim; many persons not affected by the leaves are powerfully influenced by the smoke of the burning plant; this smoke contains a high propor. tion of the toxic principle. Other persons who do not appear to be affected by the poison ivy are so affected by a related plant, the poison sumac (Rhus vernix). These plants are most deadly in the spring and summer months.

JAW STRENGTH.

It is quite easy to understand that men must give careful attention to what is called the "crushing strength" of rocks, timbers, and other materials used in big constructional work. It is less easy to believe that similar attention must be given to the materials used for the fillings of tooth cavities. the "amalgam" used for such dental work is composed of from half to two-thirds of silver, a small amount of zinc, and the remainder cup-This material has to per and tin. stand quite considerable pressures when the teeth are engaged in such heavy work as the chewing of steak. In what is called by the Americans "rapid fire-eating, i.e., when the crushing load is constant, the pressure exerted on teeth-filling may be equivalent to over 22,000lb per square inch. That excellent institution the United States Bureau of Standards therefore gives careful attention to the crushing strength of the different amalgams used by dentists. The effect of ice water and of hot foods on the amalgam is also noted, and is found to be harmless in general; however, such high temperature as 80 deg. centigrade (17 F. may be productive of much harm, and may quite alter the characteristics of the amalgam

AMERICAN SEAWEED INDUSTRY.

Agar-agar, that valuable aid to medical science and important food adjunct for the supply of which the world heretofore has relied solely upon the Orient, is about to be extensively manufactured in the United States. An American company already is turning out a third of ton daily in a finely-equipped plant at Glendale, a suburb of Los Angeles, California, and steadily will increase its capacity. Japan has enjoyed a monopoly in agar-agar, and last year the United States imported 240 tons from there, and Great Britain and other European countries much more. Consumption is heavily increasing although the public generally has never heard of the name. It is a gelatine-like derivative of seaweeds and meets wants which nothing else can. In Japan but 10 species of the marine algae required are found. Two years' diligent research disclosed that fifteen species of superior quality grow in comparative abundance along the southern California coast. Ager-agar long has been esteemed there as a food, and as such it appeals more and more everywhere. It is a wholesome and delicious thickener in jellies of all sorts, fruit, meat or fish. It is particularly beneficial mixed with any ordinary cereal or breakfast foods with the addition of sugar or salt. The major demand, however, is from aospitals, laboratories, and the medical profession. The peculiar substance has no equal as a culture media for bacteria, retaining its solidity, unlike gelatine, at the requisite temperatures, and thus proving indispensable to bacteriological research and segregation. During the war it figured successfully in the healing of certain wounds.

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