

Within these enclosures are specimens of birds and animals as in the Zoological Gardens, London. This is what is somewhat pompous language is here called the Garden of Acclimatization, in which all sorts of trees are to become hardy, and all sorts of birds, beasts, insects, and creeping things are to be insured to the climate of Paris—the grand conception of some brilliant visionary. Not having seen the *Jardin de la Société*, I cannot say one or the other progressive, I don't know that much is assigned to this great idea, nor do I know in learning more of it, than in more details than what I have stated. You must therefore be contented with hearing what I say, as far as experiments in acclimating plants are concerned. So it is known, then, to all save that the Society recognises the necessity of learning experimentally whether Pinus Sabiniana is hardy, and if Magnolia grandiflora will live out in winter. You English will stare at this when you remember that the *Pinus* is among the lastest of all trees, and how good M. Bousquet used to grow the *Magnolia* a quarter of a century ago in his garden in Paris. Another object of experiment is in the *Haworthia*. White Linder (*Tilia alba*), of which a wretched grey individual, grafted half standard high, is perishing under the hands of some premonitory executioner. I mention these as examples of the childlike way in which horticultural experiments (?) are conducted here. The whole affair is in that respect shamed. To be sure there are specimens of *Araucaria Bidwillii* and *caerulea* in taste; but I could not make out how keeping them in such a manner was likely to serve any purpose in the art of acclimation. It is like saying it is proposed to acclimatise other species by growing them in a box conservatory or sieve, I am not sure which, with a hook winding through the middle of some handless "specimen" plants, as our fellow sinologists call them. But of this enough; it is not worth dwelling on such a subject. The situation is desirable: airy, dry, nicely wooded, and the very place for well conducted trials, and all must regret that the Garden of Plants, with its staff of highly educated, experienced officers and most able professors, should be doomed to inaction on the skirts of the wine market and dirty Rue Coquain. Instead of being transferred is the beautiful Bois de Boulogne, now the resort of the best classes, who will neither drive nor walk to the miserable place where all the treasures of Paris in Natural History are literally stored away. One redeeming feature in this Jardin d'Acclimatation must not however be forgotten. It has a capital *Museum* gallery of Silkworms, a very interesting collection which the Abbees, the Huziens and the White Mulberry have been diligently explored at the summer exhibition themselves to the public, had at work or the leaves to earn pecuniary. When I saw these last the leaves of Allianthes were alive with young worms, and some great green fellows were nearly full grown. This was by far the most interesting object in the Gardens. The practice is a tiny cottage made of Case-work, and fitted up with charming Case furniture, of which we cannot boast the like in England. I have close by my *Feuille de Pois*, No. 25) a shopfull of such articles which I recommend everybody who has afield a garden spares for garden chairs to go and see. *V. Par Caudifloro.*

Oriental Fertilization.—I have been endeavouring during several years to make out the many contrivances by which British Orchids are fertilized through insect agency. I am very anxious to examine a few exotic forms. Several gentlemen have kindly sent me specimens, but I have not seen one of *Lindernia*'s grand varieties of *Archidium*. If any one would have the kindness to send me a few flowers and buds of any member of the group, packed in a small tin capsule, by post addressed as below, he would confer a very great favour on me. Would you have the kindness to inform me, if in your power, whether the late Professor Morren has published anything (and where) on the fertilization of Orchids by insect agency? *Charles Darvill, Dowes, Bromley, Kent.* [We are unable to answer this question, and must refer it to others. After searching through Morren's multitude of pamphlets, we find nothing on Orchids except an academic dissertation on *Ocotea latifolia*, and some remarks on the cause of the movements in the lip of *Magnolia*.]

Mourning Coal-tar.—I was struck by the caution given to avoid measuring Coal-tar, as I can well remember seeing outside of Hull, in Norfolk, Cromer-wards, two plantations of Spruce and Larch, one on each side the road, the spruce in a circle and with boughs pointed opposite each other, with roots in well manured ground," and state: "The other had as it—" These were planted in unmanured ground," date the same as on the other hand. The measured trees were at least twice as high, and had a far more robust and healthy appearance than those unmanured. It is more than 20 years ago, and the boughs may yet exist. I may also mention that a few years since I planted three *Douglasii*, and the most sickly one, which I hardly expected to get up, I placed immediately over the spot where I had recently buried my splendid old favourite sitter. At first it made very slow progress; but for the last two or three years, when it may be supposed the roots had reached the dead carcase, the growth has become most vigorous, the colour of the foliage par-

lilarly beautiful, and its branches far more stout than the other two; which, however, are very handsome. Hence I infer that snuffing many of the *Coumara* may be safely and advantageously practised. *Thomas Jaye, M.D., Newmarket, Hants.* — In September, some eight or nine years ago, I had nearly the whole of my stock of *Confertus* plants removed and heavily mulched with half-rotten horse and cow dung. At the end of the same winter the question was, was it through your Paper which the application of manure had lightened the *Acacia*? The reply was, "Yes, it is poison to the whole race." I thought that if that was correct I have certainly committed a serious blunder, but I patiently waited and watched the results. Nothing could be more satisfactory than the growth and appearance of the plants the following season. Since then I have invariably applied manure whenever I remove plants of the kind in my nursery, and always with the same satisfactory results. Therefore I have always recommended the application of manure whenever necessary, or an opportunity occurred for using it. An illustration of what I have stated, I beg to say that about twelve months ago I sold a handsome specimen of *Ficus Nodiflora* to a lady in this neighbourhood, who always experiments and directs the transplantation of trees, &c., herself. A compost of manure and soil was prepared for this plant, including three horse loads of the former. Nothing can exceed the healthful appearance of this tree just now; it has made sixteen inches of leader this season. *John Griner, Wimborne.* —

Would your Correspondent "J. M. B." inform me when to have his *Malus sylvestris* fruit ripened?

It is proposed to have a full crop of apples ripened

as quickly as possible, and to be applied to "Dowdes and Pies." *W. Webb*—I send you from the stable or rotten? because I am of opinion that a matching of any kind would be beneficial, inasmuch as it would keep the roots uniformly moist, and also prevent the ground from cooling by evaporation. *Conifers forming a prominent feature in the grounds under my care, I am anxious to possess correct data respecting these. Crosses.*

Caleularia (see p. 800).—I had with pleasure the hint thrown out respecting the merits of the two kinds of *Caleularia*, vis., shrubby or perpetual, and the herbaceous or annual kinds. Some five or six years ago I was induced to commence growing *Caleularia*, as I saw clearly that the herbaceous kinds must wear out. I therefore selected some of the most healthy of the shrubby kinds to propagate on, were particularly angustifolia, and a variety called *Kaydi*, having proved them both to be healthy parents, and the result of my first batch was quite satisfactory. But, as my object always has been to get decided fixed character and colour, I have now by no means two plants of the same qualities that I raised in 1857, and they measured when in perfection last season 4 feet diameter, and I am in hopes of saving them for next season. I quite agree with your Correspondent respecting the duration of the *Caleularia*. I will remember seeing hardy shrubby kinds shown at Chiswick 30 years ago, and they made a beautiful display, and why should they not now, as any one can have my strain of shrubby kinds in flower from May to October. My shrubs are equally valuable for the border or flower garden, which makes them doubly useful. I have them now beautifully spotted and blotched, especially as rich in colour as the herbaceous kinds. *James Burley, Lambeth, Surrey.*

Plum in Pot.—I exhibited on Thursday last three *Grape Vines* in pots at Workshop exhibition; they were admitted to be very superior to any at the show, and averaged 13 bunches each. To my surprise on entering the tent, after the judges had made their awards, I found one containing the vines placed on my *Vitis*—"Disgorged green in open boxes." Now I have scores of witnesses who could prove that they were grown in pots, and that they had never been plunged, although they had partly rooted from the bottom or creek hole into some old tan on which they stood. These Vines were taken to Workshop and back in an open van, remained there all night in a crowded tent, the exhibition not having closed until 11 o'clock, and they are now at this moment fresh and good and still fit to be exhibited again. I had a large trolley made to fit the Vines on in order that they might travel safely, and had also a large larch box placed into the pots to steady them. This caused me in order to balance the Vines to drop them into larger pots; then I filled the cavity with Moss and water to keep them from drying, knowing that they had to remain until the second day. I believe that they have started all perfectly in fact. The schools stated only that they were "poorly developed." These Vines in pots I think are very inferior to the best. Can they withhold the fruits from me on the grounds stated in their card sheet alluded to?—I feel that they cannot. Had the Vines been plunged and rooted off over the top of the pot they might have objected, but as the Vines were fairly grown in pots, as per schedule, and as exhibited, I believe that I can claim the prize, can I not? *Edward Bensell, Gidea Park, Hall, Workshop, N.W.* [Undoubtedly.]

Oakland House.—Allow me to make a few remarks in answer to your very judicious notice of my little pamphlet. I know you will pardon my taking exception to what you have said on fertilisation of Peach blossoms; believing it to be a matter of necessity in many cases, but jealous of anything being said which has a tendency to lessen the idea of its importance. I am aware that some kinds will, when well ripened, set their blossoms

without assistance, but I have proved by experiment that it is unsafe to trust to others. The partially ripened state of the wood and almost total absence of bone, of course tend much to aggravate the consequences of neglect this season, but I have the most positive proof that natural fertilisation alone made the difference between a crop and a failure in several instances. There are four houses in the immediate neighbourhood which have all done well, from one or two plants which had all been cultivated together. Two of these houses are under the care of good gardeners, and they are entire failures in point of fruit this season. There are acknowledged that they did not think it necessary to follow the advice they had received. The third house, erected by the same builder, and of the same size as the others, 60 x 20, is managed by a man who was a labourer a few years ago. Feeling in want of information he came over several times in the spring to have a talk with our foreman. His house has been full of very fine fruit, and his master says he has had to give much of it to his friends. The fourth case is still more striking; after nearly all our best plants were sold, and what were left were nearly in bloom, we had to sell an orchard house just built near Burton on Trent. Of course most of the trees were inferior to those supplied in the former cases. With the exception of being most tastefully painted and paved, this house was exactly built as the others, and by the same person. Being near the dwelling, and a new source of pleasure, the lady of the establishment took it in her own hands, and managed it entirely, and did not think it necessary to follow any advice. Many of the trees fruited well, were full, and I will venture to say, for well ripened well grown trees, and perfectly clean foliage, she might challenge the country. In our own house we had not more than six or seven trees without fruit (though it had been crowded by sale trees the previous season); many have from 90 to 900 bunches of the finest quality, some few of which remain. From the 1st of August till the present date few have seen our house without tasting the fruit, and if you were to see the number of stones reserved for sowing and the seedlings of the two last years you would be more than ever convinced that Havers' orchard houses are a great fact. One thing is certain—what has been done for years without a failure and at so little cost, others will be required to do. I could not help laughing when a neighbour's gardener came and offered me a dozen for my *Peaches* only a few days ago. His Grapes are not bad, but the *Vitis* is English. I have had *Prunes* this season, our sweetest bunches last, and as the best walls are all covered with *Peach* and *Apricot* trees, they are equally without fail. When paying a visit last summer to Mr. Ingram, at Belvoir Castle, and seeing the magnificent spread of *Peaches* grown on the walls, I could not help thinking how foolish it was to cover a south wall with glass for Peaches instead of building an orchard-house and planting the wall with *Pears*. *J. E. Pearce, Chelmsford.*

Pest.—It may be important to many of your readers to know that Welch's *Perfection Peas* will withstand drought and mildew better than most, perhaps any Pea, in cultivation. When other Peas can scarcely be kept alive with copious watering it continues to produce abundance of tender Peas of excellent flavour. So convinced am I of its excellency that in future I will sow only it and *Daniel O'Rourke*, the latter for early gathering. *W. Orme, Westbury.*

Roses.—Will any of your readers give their experience to the two plagues which are now afflicting the Rose—ants and scale? The *Rosa* here has suffered great growth with me this year, and the show of buds for the re-splendid *Hybrid Perpetuals* is most promising, but mildew attacks the new shoots, gets round the flower stalks and destroys the flowers. The roses that escape this fate open for a day or two, and then go off as though they had been scorched, and are found to be infested with myriads of thrips. Does this same cause produce the two plagues, and are they to be attributed to the long drought we have had here? And what is the best remedy? I have dusted with flowers of sulphur all the mildewed parts of the trees, and in some cases have arrested the progress of the disease, but one class of *Hybrid Perpetuals*—the *Géant*, *Lord Raglan*, *Cardinal Patrizi*, and *General Jacquinet*—seem completely overcome by the mildew. The thrips are a most grievous and provoking enemy. Yesterday I had a beautiful show of blossoms just opening as *Madame Laffey*, *Madame Victor*, and *l'Étang de Mont Cornet*; this morning they are all destroyed. I shall be glad to receive suggestions whether as to cause or remedy. The mildew does not seem to be of any particular state of vegetation. My garden lies high, low, and the plants out in the open are as much affected as those which are under the sheltering trees, and many kinds are not touched at all, while the next tree is covered with mildew. *Cela Rossa* are free, and then the climbers, but *Gloire de Dijon* is slightly affected and has been kept in good condition only by our constant attention. Would you advise cutting in the young shoot that are most affected? Because seems specially liable to mildew. *Cosmopolitan.*

Pinean.—A writer in your columns (p. 629) states that he caused *Vassa rosea* to seed at the Royal Garden, Kew, by initiating the action of an insect in inserting its prossess. As I had succeeded with the common *Periwinkle*. By implication it may be pre-

