of our thickets. It is a perouninal herb, the cleanest in appearance of all our climbers.

If you have troes upon your lawns with bigh aud unsightly trunks, plant a Virginia crecper near to cover them. Do not intio. duce single high uojects covered with climbers into an unhroken lakr. An old stub covered with a mingled verdure of Virgitia creeper and bitter-sweet, is desirable umong trees, but never in an open lawn, unless it has an ivmediate backgroumd of high ver-dure.-L. H. Bailey, in the Michi;'/n Hortculturist.

## LOVE MAKETE RICES.

> BY MRS. M. J. SMITH.

My neighbor, just across the way Is rich, while I am poor.
Yet with her priceless wealth to day, She envies me I'm sure.

How lifeless all my treasures are ; These costly works of art.
Her gems have life and gatline close Unto a tender heart.

My halls are tapestricd. I see Rare views at every ghanee.
On her low walls at eventide The shadow fairies dance.

Oh, restless figures bearing me, Back to a father's cot ;
A plain, unpainted vane.clad cotBut such a hallowed spot.

Oh, I would give the world to be A happy child to night !
And stand once more within the glow Of that soft firelight.
To hear my mother's gentle voice, And feel the kind caress
Of hands that latd our childish ptans Aud wrought our bappiness.
Oh years an. $\begin{aligned} & \text { years, twixt now and then, }\end{aligned}$ So empty but iu name,
Has been the restiess, fevered life, This stretch for wealth and fame.

That could the cown of love once more But grace my burning brow,
I would exchange with her who sits In youder firelight now.
She does not know how glittering gold Can weigh the spirit down,
Nor how her love is lifting her Uuto a star-gemined crown.

She does know how thick the thorns
'Neath sparkling gems are set.
She does not see how often pearls With costly dew is wet.
And 80 she goes her humble way, And envies me I'm sure.
While I, I grudge her gifts that make Her rich, while $I$ 'm so poor.

Southey says, in one of his letters: "I have told you of the Spaniard who always put on spectucles when about to eat cherries, that they might look bigger and more tempting. In like manner I make the most of my enjoyments, and though I do not cast my cyes away from my troubles, I pack them in as little compass as possible for myself and never let them annoy others."

## Buft Rutam.

Eand-Eybridization- and Its Importanco in tho Improvement of Fruits and Flowers.
by ernest walkrir.
Several years ago, in correspondence with one of the principal floiists of the feomitry, respecting a new set of Colens, we referred to the fact of their being the result of "hand-hybridization," and reecived this reply: "That amounts to nothing. Insects can do that better thin we." Hojvever, our set of twenty varieties was selected-from less than one hundred and fifty seedlings, where this florist in advertising a similar set of his natural seedlings, clained they had been carefully selected from something like ten thonsand seedlings ; doubtless congratulating himself that he had done so well. This is what suggested the following thoughts upon the subject.

All horticulturists know that the present improved state of the various kinds of cultivated fruits and flowers has been brought' about by cultivation, and that origimally, or in their wild state, few of these kinds posessed any of the qualities which characterize the present improved varieties. And furthermore, this high state which cultivation has wrought is found to be not permanent, but ever exhibiting a temdency to return to the primative state.

There is, however, a reason for this as in all things ordered by the ouniscient mind of the great Designer, who has placed at the disposal of man the material, and bestow ' upon him a superior intelligence which it is man's privilege to use in developing this matterini that it may better seric his necessitics. Had the Crator himself developed the resources of this material-built the cities, the railronds, the iron bridges, elothed. man, and further, mado each Hower and fruit in a permanentstate of perfection, what would be the mission of man? What part would or could he fulfil in the great plan of the Infinite Designer?

As it is, however, all things have licen created with ever asusecptibility to improve ment, yet ever exhibiting a tendency to return to the primitive state. This plainly catablishes the fact that, if there be not im. provement there must be deterioration; so that it seems the Creator has, in a measure, compelled man to cultivate and use his in. telligence in opposing this tendency, and ever persevere in the improvement of both mind and matter.

As before stated, this disnosition is plain: ly manifest in the fruits and flowers which we cultivate. This brings us to a consideration of the subject before us, that of hand hybridization, or artificial cross fertilization in the improvement of fruits and flowers.

First, let us enquire, in what does improvement consist? Not mercly in olstaining now varieties, or some novel and curious feature,
but rathor in improving the qualities nirealy possessed, and in uniting them in new varieties to take the place of the parent varicties, through which we ather tend to diminish the number of varieties; just as, coukd we combine in one apple the good qualities of all, we certainly should need but the one variety.

The importance of discubling old varieties as we improve upon them, has much impress. ed me since first I became interested in this subject, for how cun one ascend a hadder, who, while endenvoring to reach the rounds above him, clings to those below?

Now in the improvement of fruits and flowers, ats is admitted in the improvement of stock and cattle, tho basis of success and progressive improvement is found in the pedigree. By maintaining this, we are not only enabled to urest this tendency to degenerate, but at the same time we preserve a foundation on which to build future progress. 'Thus, while perfecting desirable qualities, and eombining them in new and improved varictics, we con ever add improvement to improvement, and so on dil infinitum.

In ordinary fielid erops and other plants amually grown from seed, the pedigree is preserved by careful selection and cultivation of a particular strain, and guarding against and casting out all departures from this. Thus can the pedigree of such plants be maintatined-being annually grown from seed, the ameliorating influence of high eultivation has a more open chance to manifest itself.

In peremial plants, however, the tendency to degenerate when grown from seed is more manifest, so that it is impracticable to maintain the pedigree in this waty, and bud propagation is resorted to. But in these plants, as in anmutls, youd cultivation will annifest its influence, through which we can increase the chances for obtaining an improved kind when grown from seed. Different pedigrees or varieties of fruits and flowers moreover possess individual qualities, which would, if combined, produce a new varicty, possessing, perhaps, the desirable attributes of both parents. This suggests an enquiry as to the means of accomplishing such a result, to which we briefly answer: This means consists in the cross-fertilization of tlowers, which in nature is performed by insects and other agents, carrying pollen or fertilizing dust from flower to flower, thus affecting the development of the seed, which proves that tho tendency in seed to produce varied individuality is plainly due to some external a;ency present in the fertilization of the ovalr, or some time during its develop meut, such as climate, soil, cultivation, or coss-fertilization by insects or otherwise. So in resorting to this means of obtrining new varicties, we resort to a natuml means after all.

However, insects are not interested in improving fruits and flowers, consequently do not always make the most desirable cross-

