## THE AMERICAN CRAB APPLE.

Prof. W. J. Beal, of the Michigan Agrieultural College, has furnighed the Botanical Index the resulta of an intereating study he has made of the native orsb apple of thin comntry (Pyrat coronaria). Mr. Case, editor of the Botanical Index, at Richmond, Indiana, has kindly allowed us to reprodnce the article from his exeellent journal. We believe this view of an original fruit will intereat our growers of improved sorta, and may to some bring new pointa of information.
Of the American crab apple there are two or three varieties, The loading one in Pyrus coronaria, a small tree, which extends from near Iake Superior in Britigh America to Louisiana. It is especially abundant in the highest of the Alleghany mountains. It thrives in open places, in cool soil which ia deep and rich, though it is not uncommon in soil of moderate fertility. The tree varies in hight from 15 to 30 feet, according to noil and climate. The diameter of the trunk is 3 or 4 inches, but in some cases it reaches 15 inchos. The leaves aro ovate or broad ovate, variously out, serrate, and often lobed. The flowers are quite large, in corymbe, pale rose color, and very fragrant. The fruit is about 1 to $1 \frac{1}{2}$ inches in diameter, flat, globular, with a slight abrupt folded basin, and a very uhallow cavity. The color is yellowish green, unctuous, and very acid.

The engraving on this page, nhows a branch with lenves and two apples, with a section of a third, about two-thirds the natural nize; alno a flower and a flower bad. The latter is copied from Michaux'a North American Sylva, There are 35 or 40 apecies of Pyrus, nativen of both hemispheres, in the north temperate zone. Along the Alleghanies there is a narrow-leaved orab apple, which may be a divtant upecies from the one here figured. In Orogon we find $P$. rivularis, which bears small, reddish-yollow fruit, about the size of that borne by mountain ash. The Indians use it for food.
To a limited extent, the crab applo has been tried as a hedge plant. It in well adapted to a high northern latitude; is a very stiff grower, well oovered with sharp spines; grown faster than hawthorne; is hardy and not liable to diseame. At Michigan Agricultural College, there has been atarted a short hedge of this plant. In the city of Jansing, near by, is a clowe row along the front line of a city lot. These trees have been allowed to grow in a natural way. When in flower, the display in very fine, filling the air with their delightful perfume. The thorna, rough bark, crooked limbs, and rather open top, give the tree a rather pioturenque appearance. Perhapa these may be nome of the reasons why it in not much used in this country an an ornamental troe, though it has long been considered one of the prettient flowering ahrubs in England.
The American crab apple is probably eapable of improvement by solection and cultivation. Why not : Everything that has been faithfully tried has improved sooner or later, under the fostering care of man. What virtues lay hidden in this wild fruit, probably we may never know; as no peoplo will be likely to perniatently try to improve a sour, wild spple, while we as. ready have those so much better.

Pyrua Malue and P. pronifolia already have the lead. Certainly, for over 2,000 years, the common apple has been undergoing improvement, how much longer no one knows. In a late easay, Dr. A. Gray "speculates as to what our pomology would have been if civilization had had iti birthpisoe along the southern shores of our great lakes, the northern shores of the gulf of Sexioo and the intervening Missiseippi, instend of the Levant, Mesopotamia, and the Nile;" our apples woald have boen developed from Pyrua coronaria, and might have equalled anything we actually posecse from Pyrus malus.
It is not certain that this apecien can bo oroeved is either why with our common apples. Oa two seneons anveral attempte were male by the writer, bat all to no purpone. Like expers. ments made in croseing our cultivated crab
applen on the wild apecien have been sucoceaful, and will be continued. In thin way we can got now blood into our cultivated craba, and, perhaps, gain nome desirable point in tree or fruit for the coldeet parta of our country. It may, howgver, turn out like a croua of our common cattle with the Amoriean bison; no advantage to the buffalo, and a great detriment to our cattlo. J. G. Soulard, in the Horticultural Report of Illinoin for 1868, apeake of nome trees which were cultivated and bore fruit three or four times the aize of the ordinary fruit. Ho fancied they were not quite wo harih. The tree origi-

Tins Secher or Brauty. - The true secret of beauty is health. Those whe deaire to be beal. tiful ahould do all they can to rontore their health, if they have it yot. No one can lay down apeoitio rules for other people in these mat. ters. The work one may do, the rent he mast tako, his baths, diet and exercise, are matters of individual conaideration, but they mant be carefally thought of and naver noglected. Aas rule when a perton lookn woll he feels well, and when he looks bad he feels bad, as a goneral thing. There are times when one could guens, without looking in the glans, that his oyos were


FOLIAGE, BLOSsOMS AND YRUTT OF PYRUS CORONARIA,-After Miehaur,
nated in Miseouri, and was thought to be the reault of a crose with our common apple, some of which grew in the immediate vicinity. Some opecimens of the fruit were seven inchen around. It is valuable for cooking, preserving, and jel. lies. He adda: "It will keep for iwo yearn with common care in a oellar, and will stand re: peatel froezing and thawing in a darkish place." Perhape he might add, thai without damaje, it it could be shakien or beaton from the tree, and taken loovely to market is a lumber wagon.
A azautrive girl up town received a fragrant bouquet from ote of her many simirers. "How lovely "" exclaimed the oontatic fair one; "it fumigates the entire dotnicile."
dull and his akin was mottled. This is not a case for something in a pretty bottle from' the perfumer's, or for the lotion the cireulars praise oo highly. To have a fresh complexion and bright eyes, oven to have white fands and a graoeful figare, you must be well. Healh, and the happiseses that usually comes with if, are the true seoreta of beanty, - Quarterly Reviens
Pafer that whl. Wasp, - A how paper is now made of palmetto filior which cas bo wahed with soap and water, sa oee would wah a piece of linen eloth, then rubbed, wruig out, and Iried. The paper resembles parchmeas is eolor, It is not matrong bet is tough, although of unsven thickness.

