Why add edible and floral plants to riparian forest buffers?

Multifunctional riparian forest buffers (MRFBs) offer the opportunity to produce perennial crops of native fruits and nuts, as well as floral trees and shrubs.

These products can be harvested and sold at retail or wholesale markets, and used at home. This information sheet provides examples of how these plants can be added to riparian forest buffers in the Appalachian region.

As their name implies, MRFBs have a wide range of functions. They filter runoff and keep stream banks stable, helping to improve water quality by reducing the amount of nutrients and sediment that flows into waterways. They also shade the water, providing habitat for some cold water-dependent fish species. MRFBs provide habitat for wildlife, including pollinators, and can act as wildlife corridors, providing cover and food sources. Providing habitat for beneficial insects may reduce the need for pesticides, which may have an additional environmental benefit.

Multifunctional buffers also have social benefits. By protecting water quality, MRFBs contribute to safe, clean drinking water for all that live downstream. Increased wildlife habitat means more opportunities for people to enjoy the outdoors through hunting, fishing, bird watching, and water sports.

Riparian buffers planted with a rich diversity of native fruits, nuts, and florals offer the grower a special connection with local tradition, culture, and folklore. Pawpaws, for example, are rarely found on supermarket shelves, but have long been a delicacy. Older fans of pawpaws may buy them at farmers markets to savor a taste from their youth, while those new to pawpaws might further their appreciation of the land where they grow wild. American persimmon, when tasted at peak ripeness in the late fall or early winter, has an unparalleled flavor and is a traditional holiday treat. Serviceberry, also known as sarvis, Saskatoon, or juneberry, has an underappreciated blueberry-like fruit, and everyone loves the clouds of white flowers born in early spring. Native fruits, nuts, and florals are a part of what makes a region unique. Each region has its own set of native fruits, nuts, and florals with potential to be incorporated into MRFBs.
## Edibles and Florals harvested from multifunctional riparian forest buffers*

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<th>Edible/Floral</th>
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| **Pawpaw**   | With a tropical flavor, custard texture and high nutrient content, America’s forgotten fruit can be eaten fresh or made into desserts. | Fresh fruit: $2/lb wholesale  
Frozen pulp: $6/lb retail  
Jam: $6/oz jar retail |
| **Persimmon** | The “Fruit of the Gods,” sweet persimmon can be sold fresh or made into pudding, jam, dried fruit and even beer. | Fresh fruit: $2.75/lb retail  
Frozen pulp: $8+/lb retail  
Dried fruit: $11+/lb retail |
| **Elderberry** | Coined “Nature’s Medicine Chest” for its immune boosting properties, elderberries can be made into syrup, cough drops, juice, wine, jam and food coloring. | Juice: $15-$17/11oz jar  
Syrup: $18/4oz jar retail  
Wine: $10-$13/bottle retail  
Cough drops: $2.50/15 retail |
| **Hazelnut** | A great source of fiber and ‘good’ fats, hazelnuts can be sold in shell or shelled and made into flours, candies, butters and oils. | In shell: $3/lb wholesale  
Shelled: $6/8oz retail  
Oils: $8/8oz jar retail |
| **Woody Florals** | Woody florals, such as pussy willow and red and yellow twig dogwood, can be coppiced every 2-3 years and sold to the floral industry or used in crafts. | Cuttings: $0.37-0.45/stem retail  
Wreaths: $45+ ea retail |
| **Black Walnut** | This multi-use tree produces valuable timber and heart-healthy nuts sold in shell or shelled. | In shell: $9.25/lb retail  
Shelled: $12/lb retail |

*Prices can vary considerably by season and local markets.*

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