Non-Timber Forest Products: Alternatives for Landowners

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Recently a great deal of attention has been given to forest products that are plant-based but do not come from timber. These “alternative” products are found growing under the forest canopy as herbs, shrubs, vines, moss and even lichen. Although they have been gathered for generations, non-timber forest products have had less attention than “more important” timber products. However, astute landowners, willing to make the effort, may improve forest-based incomes by gathering and marketing these products.

What are NTFPs?

There are numerous NTFPs, and their management and utilization often overwhelms forest managers. Non-timber forest products are produced from plants, parts of plants, fungi, and other biological material that are harvested from within and on the edges of natural, manipulated or disturbed forests. Many parts are harvested, including the roots, tubers, leaves, bark, twigs and branches, fruit, sap and resin. Classifying NTFPs into categories helps appreciate their range and potential. We have organized NTFPs into four product categories: edible and culinary, specialty woody products, floral and decorative, and medicinal and dietary supplements.

Fungi, particularly mushrooms, are perhaps the most well-known and documented edible forest products. Other

edible products include berries, nuts, sap and resins, ferns, and wild tubers and bulbs. Large-scale commercial mushroom harvests in the Pacific Northwest concentrates on six species-matsutake, morels, chanterelles, boletes, truffles, and hedgehogs. The collection and marketing of forest-harvested huckleberries and blueberries supports thriving cottage industries in the Pacific Northwest, Upper Midwest and Northeastern United States. In Appalachia, ramps (wild onions or leeks) are widely collected and important to local communities. Maple syrup production in the Northeast has a long tradition and provides many rural jobs.

Specialty woody products are considered non-timber if they are produced from woody vines, saplings, or parts of trees, but not sawn wood. For example, burls, twigs, branches, and cypress knees are processed into products, which are not timber-based. These products include handicrafts, carvings and turnings, utensils and containers. Also included are furniture made from branches, twigs and vines, as well as tools and musical instruments made from wood not sawn from logs.

Floral and decorative products, made from forest plants complement live flower arrangements and form the basis for dried ornaments. They include fresh/dried flowers, aromatic oils, greenery, basket filler, wreaths, and roping. Spanish moss, collected from the Southeastern forests is exported to provide packing for flower bulbs, and mar-
keted in United States craft stores. In southern Appalachia, grape and smoke vines are used for wreaths and other decorative products. The harvest of *galax*, from western North Carolina for the international floral trade, is thriving. Pacific Northwest examples include *salal*, *evergreen huckleberry*, and *bear-grass*. Evergreen boughs cut from white pine, balsam fir, noble fir, and other coniferous species may be the largest segment of the floral sector.

The use and trade of herbal medicines derived from forest plants has a long history and may constitute the highest valued segment of the non-timber forest products industry. Some segments are widely fragmented with many small producers, while a few large companies dominate other segments. But whatever figures one examines the value is quite evident. In 1992, the harvesting of approximately 4 million pounds of mushrooms contributed more than $40 million to the Pacific Northwest economy. More than 25 million pounds of wild-harvested black walnuts are processed each year, generating about $2.5 million for collectors. In 1997, maple syrup production totaled almost 1.3 million gallons, valued at more than $30 million. In 1995, the US exported forest-harvested moss and lichens worth more than $14 million. By some estimates, the worldwide market for herbal medicines exceeds $12 billion. These are but a few examples found in the literature concerning the economics of non-timber forest products. For the sources of these figures, the reader is encouraged to review the list of selected references.

Market outlook

The markets for many non-timber forest products are well established, have formal channels through which the products flow, yet remain unknown and mysterious to many forest landowners. Some segments of the NTFP industry have grown rapidly over the last decade, and some have great potential to continue to grow. Understanding the market environment and trends is important when considering alternative forest products. In recent years, some segments of the industry have reportedly grown at annual rate in excess of 20 percent. For example, the sale of herbal medicines in the United States was projected to experience a three-fold increase, from 1995 through 2000. At the same time, the market for these products can fluctuate tremendously from year to year. In 1998 retail sales of black cohosh grew almost 500 percent. Unfortunately, the following year, with warehouses full, the price declined to a point where dealers could not sell their black cohosh inventory and sales of other major medicinal herbs (e.g., purple coneflower, forest-harvested ginseng, saw palmetto) dropped as well. But, as inventories decline, harvesting may rebound for these products.

The demographic conditions and consumer preferences in the United States are encouraging for the continued growth in the trade and use of NTFPs. In general, consumers are moving toward things that are organic or made of natural materials. Many Americans in the "baby boomer" generation have become frustrated with the high costs of western medicines and are looking for alternatives, which includes herbal medicines. More than half of the nearly 40 million men, who will turn 50 in the next decade, may experience prostate problems.
The diversity of products that can be gathered from the forests is astounding, and includes vines, cones, food, and wreaths.

only to have the market decline or disappear at harvest time. For the entrepreneur the pitfalls may not be as daunting as perceived. Yet, like any business venture, before getting involved in harvesting NTFPs, the landowner needs to determine if the projected benefits offset the costs.

Selected References

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