

## Endangered Species Located in Local Flood Plain



Northeastern bulrush, first described as a new species by A.E. Schuyler in 1962, is a leafy, perennial herb approximately 80-120 centimeters in height. The lowermost leaves are up to 8 millimeters (mm) wide and 40-60 times as long as wide, while the uppermost leaves are 3-5 mm wide and 30-50 times as long as wide (Schuyler 1962). Flowering culms (stems) are produced from short, woody, underground rhizomes. The umbellate inflorescence has distinctly arching rays, which bear clusters of brown spikelets (small, elongated flower clusters). Each of the minute flowers has six small (1.1-1.7 mm long), rigid perianth bristles, and each bristle is armed with thick-walled, sharply pointed barbs projecting downward. Flowers have 0-3 stamens and a 3- parted style. The yellow-brown achenes (Figure 2) are 1.10-1.35 mm long, obovate, and tough and thickened above the seed (Schuyler 1962). Flowering occurs from mid-June to July, and fruit sets between July and September (Crow 1982).

The species historical range included Maryland, Massachusetts, New Hampshire, New York, Pennsylvania, Vermont, Virginia, West Virginia.