

This Easter I visited the same bog and the water level had risen by more than a foot. This meant that the ditch was transformed; nice green sphagnum lined the ditch, and there was a four inch layer of water at the bottom. The flush of extra water had an astonishing effect on the population of *Pinguicula lusitanicum*. They had increased from three plants to about a hundred, which shows that the seed will survive quite long periods of drought.

The seed of this annual *Pinguicula* is easily germinated in a mixture of 2 parts peat, 2 parts small sphagnum, 1 part sand and 1 part loam. I have recently used loam in many of my CP composts with

good results. I think it helps to bind the rest of the compost together. The seed should be sown on the compost in a pot of an appropriate size and then put in the deepfreeze for stratification for a couple of weeks, then stand in a tray of water in semi-shade. If the seed is sown in early spring it should germinate in a few weeks and produce its first flower spikes by late May—early June. I have found that this plant usually dies after it has produced about 4-5 flower spikes, leaving plenty of seed for the next season. Although my instructions sound quite simple, this plant is difficult to grow; true success can only be accomplished by experiment.

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## An Indiana Bog

by James T. Robinson

(Purdue University, Dept. of Horticulture, West Lafayette, IN 47907)

On June 10, 1978 a group of us from the Horticulture Department, Purdue University, visited a bog which is unique in Indiana. The bog is located in the northwestern part of the state, a few miles from Lake Michigan. It occupies a deep ice-block depression surrounded by low morainal ridges, so one must walk downhill through the oak-hickory woods some distance to get to the bog. The bog contains a good sampling of northern flora, including pitcher plants and sundews.

A rough board-walk forms a trail through part of the bog, so access is not difficult. Before entering the bog proper, one crosses a "moat" of open water containing cat-tails and buttonbush. Once in the bog, plenty of live Sphagnum is evident. In some areas, especially along the trail, the moss has decayed to form peat. It is in such areas that *Drosera intermedia* grows in large mats. In the live Sphagnum, there are clumps of *Sarracenia purpurea*, which were blooming nicely while we were there. Also, individual plants of

*Drosera rotundifolia* are scattered about.

The bog is quite woody with many tamarack, red maple, and some white pine trees. High-bush blueberry, leatherleaf, black chokeberry, poison sumac, and other shrubs form thickets which are almost impenetrable in some spots. While we were at the bog many pink lady's slippers were in bloom. Much like the bogs of farther north, this Indiana bog has open areas where woody species have hardly invaded. There are even some small ponds in the bog.

The bog has been registered as a National Scientific Landmark and will eventually be included as part of the Indiana Dunes National Lakeshore. It is presently owned by an elderly gentleman whose permission must be obtained before entering the bog (he has been known to approach people with a shotgun). The man had originally purchased the land to harvest blueberries, of which there are plenty.

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