

## **HYDROPHILIC SEEDS WILL NOT SURVIVE DESSICATION**

Some seeds have a high moisture content. If they lose much of this moisture, the embryo inside will die. Even when stored at optimal temperatures, they quickly lose viability. This group is classified as “recalcitrant” (Eric H. Roberts, 1973); Bill Cullina of the New England Wildflower Society introduced the term “hydrophilic” to describe them. Gabriela Costea, an ORG&HPS member who owns BotanyCa, uses the latter term. “Recalcitrant” suggests “obstinate”. In fact, hydrophilic seeds are anything but obstinate. Their embryos are raring to go. In the past, ORG&HPS referred to these seeds as “ephemeral”, but that term causes confusion. “Ephemeral” is rightly applied to those spring-flowering woodland plants which die back shortly after blooming and disappear until the following year. Some of them produce hydrophilic seeds; others do not.

Success in propagating hydrophilic seeds is straightforward. Collect them as soon as they are ripe, then immediately clean and sow them. If you must store them, put them in Ziploc bags in slightly moist vermiculite or peat moss. The medium must be just moist, not wet and one needs to use a fairly roomy bag. In small bags the seeds have the tendency to rot fast perhaps because they lack oxygen. There is no need to spray the seeds with any chemical. The bags should be kept at the same temperature that the seeds would experience out of doors. Keep them warm during summer, coolish towards the fall and then 4°C at the onset of winter. Do not store them in the freezer because the formation of ice crystals will damage cell membranes.

## **DO NOT DONATE ANY HYDROPHILIC SEEDS TO THE SEEDEX!**

We are unable to ensure the proper conditions for storage and frigid January temperatures during shipment will kill any remaining embryos.

## **EXCHANGING HYDROPHILIC SEEDS INFORMALLY**

If you are willing to collect and share hydrophilic seed, you will need to plan ahead. Send a list of the species to [info@onrockgarden.com](mailto:info@onrockgarden.com) for publication on our website. Those who want to obtain these seeds should email the donor who will ship them as soon as they are ripe. The first of the seeds might be ready early in May, but some species don't mature until late summer. You can also order many of these species from [BotanyCa](#) where they have been collected, stored and evaluated with meticulous care.