FURTHER OBSERVATIONS ON DIONAEA MUSCIPULA
by Steve Clemesha

In the June, 1974 issue of CPN (CPN 3:22-23, 1974), I put in a note on some variations that occur within Dionaea. Further observations since then have confirmed most of the points established then and added some new ones. Dionaea, though a monotypic genus with relatively small distribution, varies greatly in several points. Some individual plants have been selected out and given cultivar names in Japan. Since I acquired these I have received additional material which in some cases is intermediate between the original forms.

All the points in which Dionaea varies have been observed before but often assumed to be only a temporary condition or the result of environment. Certainly there is environmental influence, so the observations below are on plants that have been in cultivation in a fully sunlit location. All plants are side-by-side under more or less identical conditions. The points in which Dionaea varies are as follows:

1. Petiole length. At the end of the growing season and also near the beginning of the new one, plants produce a winter rosette of traps on short, broad prostrate petioles. At this stage, plants of all forms are fairly similar. It is in the growing season that the variants show up. One extreme form produces summer traps on petioles which are short and prostrate and show no difference from the winter condition. Most, however, differ to a varying degree. Summer petioles in most forms are longer and more slender than the winter ones. The most extreme forms are more than twice the length of the winter ones. Other forms are shorter but still taller and more erect than the winter ones. In these, winter traps start to form earlier than in the taller forms. Petiole shape varies from parallel to tapered and some forms produce more graceful petioles than others.

2. Color. This factor is more difficult to study than petiole length as some plants that produce dark-colored traps when half grown produce lighter ones when mature, and trap color varies considerably throughout the season as well. Usually, forms that produce dark-colored traps are similarly colored at the center of the rosette and here the color seems more stable. Because of variation through the season, I have been able to select only some very subtle variants with one exception: that is a very pale form which at times of the year looks like an albino, but more often at least some traps have light coloring inside. In this plant the rosette center lacks color.

3. Size. In several U.S. catalogs I have seen Dionaea "bulbs" graded according to size. These seem to be "seedlings" three to five years old, medium bulbs which are five to ten years old, and large or giant bulbs ten years of age or older. I find these size classifications amusing as under my backyard conditions plants will reach maturity from seed in four or five years and an odd plant will do so in a little more than three. Once a plant approaches "medium" size, it will reach full maturity in a season. While it is possible that under poor conditions, under lights, or other artificial situations plants may grow more slowly, they should rarely, if ever, be as slow as the commercial dealers classification implies.

There do seem to be clones of Dionaea that produce traps consistently smaller than others. My completely prostrate form makes traps which are only two-thirds the size of the others. As these are crowded and on short prostrate petioles, they give the impression of being smaller still. At first I believed that these plants were immature but all have remained the same and have not enlarged for three years and are obviously healthy. All my other plants produce larger traps. Their sizes are too similar to select variations except in one case. This is a tall form which has traps also smaller than the others. The degree, however, is not so much so that it is not impossible the trap size will increase next season.

A study of more populations of Dionaea may reveal further variation in this most interesting plant.

PACKAGING CARNIVOROUS PLANT SEED
by James C. Fife

At one time or another, you will find it necessary to package seed you collected from your carnivorous plants. If you do like most people and place the seed in a coin or bank envelope, you may be defeating your objective by increasing seed loss. When CP seed are put in envelopes such as this, whether sealed with mucilage (licking to moisten) or tape, during handling some seed usually manage to get stuck on the mucilage or tape. The "stuck" seed must then be picked off one at a time; for Sarracenia this isn't too difficult, but for Drosera and Nepenthes, plucking them off tape is next to impossible. I once lost an entire year's harvest of Drosera capillaris seed this way! Needless to say, I was very angry.

I suggest you take a piece of wax paper about three or four inches square and fold it in half. It is then folded again, perpendicular to the first fold, on both sides to produce a small wax paper envelope. Be sure to crease the folds well. At no time should tape be