

Drying and Preserving Plant Materials for Decorative Uses¹

Sydney Park Brown, Patricia White, Benny Tjia, Marion R. Sheehan²

Dried and preserved plant materials are popular for home decor. Dried arrangements (Figure 1), both formal and informal, can preserve the graceful lines, textures, and colors of flowers and foliage with a subtle and gently aged appearance.



Figure 1. Arrangement of dried flowers and foliage. Credits: iStock

Many preserved materials will last almost indefinitely with little care. If they become dusty, a careful whisk with a soft brush is usually sufficient to clean them. Dried materials can be used in vases, baskets, plaques, shadow boxes, and fresh flower arrangements. They also may be used as wall decorations, on gift boxes, and in wreaths, corsages, and leis. Brandy snifters, candy jars, terrariums, and other glassware provide dramatic displays for dried materials. Pressed flowers and leaves framed under glass take on a fresh, life-like appearance.

History

Preserving plant materials in a dried form is not a new idea; it has been considered an art for hundreds of years. Fragrant dried herbs were encased with mummified bodies in Egyptian pyramids. During the Middle Ages, monks dried flowers, foliage, and herbs for use in decorative motifs or for making dyes to color their hand-printed books. Dried flower arrangements have been popular in Europe for centuries, and as early as 1700, colonial Americans used dried flowers to brighten their homes, especially during the dark winter months. Restored Williamsburg presents numerous examples of these designs.

With the development of some new preservation techniques, dried materials no longer have to appear withered and somber gray or brown. Plant materials available commercially, as well as those preserved at home with modern methods, are almost unbelievably fresh-looking and represent a wide range of colors. Thus, new areas of creativity are now open to the artistic homeowner.

- 1. This document is CIR495, one of a series of the Environmental Horticulture Department, UF/IFAS Extension. Original publication date November 1981. Revised August 2007 and November 2013. Visit the EDIS website at http://edis.ifas.ufl.edu.
- 2. Sydney Park Brown, associate professor and Consumer Horticulture Specialist, Patricia White, former graduate assistant; Benny Tjia, former associate professor, Extension Floriculture Specialist; Marion R. Sheehan, former visiting assistant professor; Department of Environmental Horticulture, UF/IFAS Extension, Gainesville, FL 32611.

The Institute of Food and Agricultural Sciences (IFAS) is an Equal Opportunity Institution authorized to provide research, educational information and other services only to individuals and institutions that function with non-discrimination with respect to race, creed, color, religion, age, disability, sex, sexual orientation, marital status, national origin, political opinions or affiliations. For more information on obtaining other UF/IFAS Extension publications, contact your county's UF/IFAS Extension office.

U.S. Department of Agriculture, UF/IFAS Extension Service, University of Florida, IFAS, Florida A & M University Cooperative Extension Program, and Boards of County Commissioners Cooperating. Nick T. Place, dean for UF/IFAS Extension.

Collecting Plant Materials

Almost any plant part—flowers, leaves, or stems—can be dried naturally or artificially (Figure 2). Many interesting and decorative cones, nuts, gourds, seed pods, flowers, foliage, fruits, and even small, graceful tree branches can be obtained by taking a walk in the meadows, woods, or along roadsides. Nature, with its seasonal variability, offers a tremendous diversity of colors, textures, shapes, and sizes of plant materials from which to select; the only limitation is the collector's imagination. There is no one time of the year to collect materials for drying, since some can be gathered every month and stored for future use. Don't wait until late fall and then try to gather everything all at once.



Figure 2. Almost any plant part can be dried naturally or artificially. Credits: iStock

For best results, all materials gathered should be in excellent condition. Approximately twice the volume of plant parts needed should be collected to compensate for the inevitable loss that occurs both in the drying process and the subsequent makeup of a design. Avoid collecting plants when they are moist from dew or irrigation.

Consider the importance of conservation when plants are gathered from the wild. Check with the state park service or other concerned organizations to learn which plants are officially on endangered species lists and therefore should not be touched. Never deplete a population of plants in an area; instead, leave a clump that will continue to grow. There are two general categories of dried materials, those collected in an already dry condition and those picked fresh and in need of artificial drying.

Naturally Dry Materials

Some dry grasses, reeds, pine and other cones, and most seed pods dry naturally. They should be harvested when they are still in good condition, usually in the fall at the end of their growing season, but before they become weathered in appearance. Cattails, however, should be picked when they first turn brown, while flowers are still visible at the top of the spike.

Usually some grooming is all that is necessary for collected materials. However, cones and pods may need to be washed in water and a mild detergent. Fragile seed heads, such as those of pampas grass and mature cattails, may be sprayed with hairspray or other aerosol lacquers or plastics to prevent shattering as they age. (Besides helping to preserve some of these materials, lacquers or shellacs may be sprayed or painted on fruits and cones to give them a shinier, decorative look.) Remove seeds from pine cones to prevent shedding, which may occur at a later time.

Artificial Drying

Fresh plant materials should be dried by one of several methods described in the following sections. Whichever method is used, the principle of drying flowers or leaves is the same: to remove moisture slowly while simultaneously maintaining as much of the original shape and texture as possible.

Generally, fresh materials to be dried or preserved should be picked at midday, when water and food stored in the plant parts are at low levels. Collect foliage at the peak of its growing season, and pick flowers in perfect or near-perfect condition at early maturity, but not quite at full bloom. Avoid flowers that are damaged or defective. Use a sharp knife or shears to cut the material and place them in water to keep them from wilting.

Since stems dry very slowly and add unwanted bulk, remove them from flowers, leaving only an inch or two to which a wire may be fastened. Remove leaves from branches that will be preserved. Groom foliage so that only the desired portion is dried.

Air Drying

This is by far the simplest and least expensive method used to dry leaves and flowers. It takes little time and skill and nearly always produces satisfactory results. All flowers or stems that are semi-dry and do not wilt readily can be used. Use a drying rack (an old window screen works fine) for individual specimens or tie flowers in loose bunches with rubber bands or twist-ties and hang upside down in a cool, dry, well-ventilated room (Figure 3). Large flower heads should be hung individually. Do not place the material in a warm oven or in front of electric heaters to speed up the process, because this can be dangerous. However, some air circulation is necessary to prevent growth of mold and to allow proper drying. Flowers usually take one to three weeks to dry, depending on the thickness of stems and foliage. The fleshier the flowers or foliage, the more time it will take to dry.



Figure 3. Air drying is a simple and inexpensive method for drying certain plant parts. Credits: iStock

Dessicants (Drying Agents)

Flowers that wilt must be dried in a supportive substance to preserve their form and shape. Several dessicants with different properties can be used for this.

1. Sand

The oldest, least expensive, and still one of the best desiccants is dry, fine, washed sand that is almost salt free. The major problems with sand are that it is heavy and sometimes bruises delicate petals. It is also slow-acting in comparison to other drying agents. A mixture of two parts borax to one part sand may be used, adding one tablespoon of salt to each quart to speed drying.

2. Borax Mixtures

Although borax is relatively inexpensive to buy, it should be used with caution, because prolonged exposure to borax dust may cause eye, skin, and/or lung irritation. Pure borax may be used for rapid drying, but there is danger of burning and/or bleaching the flower parts, especially with delicate flowers. For a milder drying agent, borax is usually mixed with either white or yellow corn meal. The mixture will not damage delicate flowers if it is used and handled with care. A mixture of one part borax to one part cornmeal mixture is satisfactory for rapid drying, or a mixture of one part borax and up to three parts cornmeal should suffice for slower drying. Add one tablespoon of salt to each quart of the mix to speed up the drying process.

Borax and borax mixtures can be reused, but the mixture must be dry. Spread in a shallow pan and place in a warm oven (250°–275°F), stirring occasionally for about an hour or until it feels dry. Store in an airtight container.

3. Silica Gel

Silica gel is the fastest-acting drying agent available and plant materials dried in it retain good color. Silica gel is a lightweight blue crystal with a high water-absorbing capacity. It is fairly expensive, but can be used indefinitely, so it is worth the investment for those people who continually collect and dry plant materials. Silica gel is the desiccant that is placed in small packets to keep food and moisture-sensitive equipment (such as cameras) dry. It may be purchased at hobby and craft shops, from florists and garden supply stores, or from chemical supply sources. Silica gel must be used in an airtight container to be effective. If it becomes saturated with moisture from the air, it will not have the capacity to dry plant materials.

As silica gel absorbs moisture, it turns pale blue-gray or pinkish gray and must be dried again by placing it in an oven. Spread in a shallow pan, place in a warm oven (250°–275°F), stirring occasionally until it returns to its original bright blue color. Store silica gel in an airtight container until it is used again.

4. Other Dessicants

Other desiccants that may be used include expanded clay, kitty litter, perlite, dry sawdust, and cornstarch. A mixture of four parts cornmeal and two parts dry detergent with or without the addition of one part borax may also be used.

How To Use Dessicants

Choose boxes, cans, or other containers that will hold the flowers without leaving too much excess space, but will prevent crowding or bending of parts (Figure 4). Flower spikes will require an elongated container such as a florist's box. Dome-shaped flowers fit into almost any container. Plants dried in borax mixtures should be left uncovered to allow faster drying and good air circulation. Silica gel requires an airtight container, such as a can with a tight lid, a plastic storage container, or a plastic bag.

Place 1/2 inch to 1 inch of the drying agent in the bottom of the container. Place the first layer of flowers on top. If you have attached wires to their stems, bend the wires to fit the container. Flat-faced flowers such as daisies may be placed face down; all others should be face up. Be sure that flowers are spread apart so that they do not touch or overlap. Sift some of the drying agent over and around the flowers, being careful to retain their form by keeping petals in their natural positions. Cover the layer 1/2 inch to 1 inch deep with desiccant and position a second layer of flowers in the container. Continue in this manner allowing space at the top to cover the last layer 1/2 inch deep with desiccant. Cover the container and do not disturb. Check for drying, using Table 1 for minimum times.

Drying is complete when flowers are crisp and dry to the touch but not brittle. The thickest parts are slowest to dry. If only the petals are completely dry, you may remove the flowers and complete the drying process using the air drying method.



Figure 4. Choose appropriate containers when using desiccants. Credits: Dorling Kindersley

To remove dried materials, gently brush the drying agent away with a soft paint brush. Then lift the flowers out, shaking off the remaining crystals. It is best to handle the flower by the wire that was attached to the stem. Shake off any remaining desiccant or brush it away with an artist's or makeup brush.

To prevent shattering, you may need to drop a dab of white or clear glue on the bases of some flowers' petals either before or after drying. If you apply glue before drying, allow it to dry completely before you place the flowers in a desiccant.

If flowers become misshapen in spite of careful burying in the desiccant, steam them lightly and quickly rearrange the petals.

Microwave Drying

Using a microwave oven for drying flowers is another method to preserve flowers and other plant materials. Microwave drying, which takes only a few minutes, provides material that looks fresher and more colorful than that obtained by other methods.

Do not use wire or any metal materials. To retain the flowers' natural forms, put them in a supportive substance before placing them in the microwave oven. Silica gel, borax mixtures, and expanded clay cat litter all work well, though silica gel is the preferred substance. Use only glass, microwave-safe paper, or other microwave-approved containers to hold the flowers and desiccants. Do not cover the container. Always place a small cup of water in the oven before cooking to prevent excessive drying.

Cooking times vary, depending on the characteristics of the leaf or flower. After cooking, allow the water to cool and leave the flowers to dry in the drying agent for several hours. Some specimens need an overnight standing period.

When using a microwave oven, experiment with length of cooking time and length of time that the dried flowers should remain in the desiccant before you remove them. Table 2 contains some suggestions on cooking and standing times for specific flowers.

Pressing

The colors and forms of many leaves and some flowers can be preserved by placing them between layers of newspaper or pages of a catalog and weighting the top with a heavy flat object. Foliage should dry within one week, and flowers should dry in two weeks. Wires can be added to stems later for ease of arranging.

Flat or single flowers work best (Figure 5); double or thick ones may mold before they dry. Sprays of small flowers may

be readily pressed and dried. Ferns dry well in this manner, as do branches of thin-leaved foliage and leaves, such as maple and oak, which are especially attractive when in fall color.



Figure 5. Examples of flower forms suitable for pressing. Credits: iStock

Freeze drying

Freeze drying plants and flowers typically results in the most natural-looking preserved materials. However, this approach requires specialized and expensive equipment and is best accomplished by professionals.

Special Preservation Techniques Glycerin

Glycerin, available online and from drug stores or hobby stores, can be used to preserve foliage. Although stems and leaves turn brown in this process, they will remain flexible and pliable indefinitely.

Cut stems in the morning when they are fully hydrated and place them 2 to 4 inches deep in a mixture of one part glycerin to two parts water. The glycerin solution will be absorbed up the stem and into the leaves slowly, turning them brown as it moves up. When the entire branch is brown, remove it from the glycerin. You may need to add more of the solution to the container if it has all been absorbed before the process is complete. Average time for this treatment is two to three weeks, but it can take several weeks longer. This method is best suited for preserving foliage of such plants as magnolia, ligustrum, and other broad-leaved evergreens. Other plant materials absorb glycerin through the leaf surface and can be submerged in a solution of equal parts water and glycerin for two weeks or until the leaf parts have changed color. This can be done with ferns and with single leaves of magnolia, poplar, and palmetto.

Skeletonizing

As the name implies, this treatment eliminates all tissue but the "skeleton" or veins of leaves (Figure 6). Skeletonized leaves lend an interesting, lacy appearance to dried arrangements. Heavy-textured leaves, such as magnolia, are the best choices for this method of preservation.

Skeletonizing is a somewhat difficult and tedious process, and great patience and care are essential for success with this method of preservation.

Boil leaves 40 minutes in one quart of water and two tablespoons of lye. Rinse in cold water and scrape or brush the green pulp from the leaves. Be careful not to destroy the network of veins. To lighten the color of the leaf skeletons, immerse them in a solution of one quart of water and two tablespoons of household bleach for two hours. Rinse and dry.



Figure 6. Skeletonized leaf. Credits: Ingram Publishing

Dyeing and Coloring

Natural color may be intensified or artificial color introduced to dried plant materials by dyeing or coloring (Figure 7).

Note that flowers are generally very fragile and may need to be dyed before drying, especially if they are to be placed in a desiccant. On the other hand, materials that are easily re-dried, such as many grass seed heads, pods, and dried fruits, may be dyed after drying.



Figure 7. Absorption-dyed flowers. Credits: iStock

Dyeing Methods

1. Dip Dyeing

- a. Ink or food coloring should be mixed in 1 gallon of water to which 1 tablespoon alum has been added.
- b. Fabric dye should be mixed with water to desired strength.
- c. Floral dip dyes should be mixed as directed.
- Method: Dip either fresh flowers or easily re-dried dry materials in solution until the desired color is obtained. If, by accident, the color becomes too intense, it is usually possible to lighten it by rinsing it in clear water. Colors will lighten in the drying process.
- Dry the dyed materials by the preferred method.

2. Spray Dyeing

- a. Commercial floral sprays: Used as directed, these are not harmful to even the most delicate materials and are available in a wide choice of colors including some metallics.
- b. Ordinary house paints sold in aerosol cans: use only on heavy textured material such as branches, thick or large leaves, seed pods, and cones.

3. Absorption Dyeing (Fresh materials only)

- a. Florist absorption dyes may be used as directed on can for fresh materials.
- b. Ink, fabric dye, and food coloring should be mixed to a solution stronger than that prepared for dip dyeing.

Place stems in the solution and let stand until the desired color is obtained.

c. Water-soluble (absorption) dyes are sometimes mixed with glycerin and water, thereby causing both the glycerin and dye to be taken up simultaneously.

Gloss Treatment

Spray heavily textured materials with lacquer or varnish to add a shine or permanent finish. Lacquer may also be thinned and brushed on or the materials may be dipped into it.

Bleaching

Many types of foliage, such as fern fronds, can be lightened by bleaching, as described in the section on skeletonizing. After bleaching, you can dye the dried foliage with a commercial florist dye.

Color Changes Due to Drying

As mentioned earlier, color retention is greatest with fastacting methods; therefore, silica gel and microwaving are superior to other methods. The following are some general observations regarding color changes that one might expect to occur during the drying process:

- 1. Pink generally becomes red, although borax may turn pink flowers to mauve.
- 2. Red generally becomes more purple or bluish.
- 3. Pure blue acquires a lavender or purplish color.
- 4. Magenta turns to lavender.
- 5. Yellow and orange are usually well-preserved and possibly intensified.

Storage

When plant parts have been preserved, take utmost care to prevent them from being damaged. Pack specimens in closed boxes or in sealed plastic bags containing mothballs. Put packets of silica gel in the boxes to absorb any moisture in the air. Dried plant materials are highly flammable, so take precautions to prevent fire hazards. Archival copy: for current recommendations see http://edis.ifas.ufl.edu or your local extension office.

Table 1. Guide for minimum times.

Flower or leaf thickness	Minimum times			
Silica gel				
Thin textures 2 days				
Medium textures	3-4 days			
Heavy textures	5-7 days			
Other c	lessicants			
Thin textures	4-5 days			
Medium textures	6-9 days			
Heavy textures	10-14 days			

Table 2. Suggested cooking and standing times for specific flowers.

Flower	Cooking time	Standing time
Roses	2 1/2 min.	overnight
Daisy-type flowers: zinnias, marigolds, daisies, chrysanthemums	1 1/2 min	10 hours
Carnations	1 1/2 min.	10 hours
Large dahlias	3 min.	36 hours
Large chrysanthemums	3 min.	36 hours
Peonies	3 min	36 hours
Small orchids	1 1/2 min	24 hours
Large orchids	2 1/2 min	24 hours

Scientific Name	Common Name	Air Dry	Glycerine Treat	Press	Skeletonize
Acer	maples		X	Х	Х
Agave	century plants	Х	Х		
Alpinia	shell ginger	Х	Х		
Araucaria	monkey puzzle tree	Х	Х		
Artemesia	wormwood	Х		Х	
Asclepias	milkweed	Х		Х	
Aspidistra	cast iron plant	Х	Х		
Bambusa	bamboo	Х	Х		
Berberis	barberry	Х	Х		
Bromeliaceae	bromeliads	Х			
Buxus	boxwood	Х	Х		
Caladium	caladium			Х	
Callistemon	bottlebrush	Х			
Carya	hickory		Х	Х	Х
Cecropia	cecropia	Х		Х	
Coccoloba	sea grape	Х	Х	Х	
Cocculus	snail seed	Х			
Cordyline	dracaena, ti	Х	Х		
Crataegus	hawthorn		Х		
Croton	croton	Х			
Cycadaceae	cycads	Х	Х	Х	
Cyperus	papyrus	Х	Х		
Eriobotrya	loquat	Х	Х		
Eucalyptus	silver dollar	Х	Х		
Fatshedera	fatshedera			Х	
Fatsia	fatsia			Х	
Ferns	many genera and species	Х	Х	Х	
Ficus	figs		Х		Х
Hamamelis	witch hazel	Х	Х		
Hedera	ivy	Х	Х	Х	
Heliconia	heliconia	Х	Х		
Herbs	many genera and species	X		Х	
Hosta	plantain lily	X		Х	
llex	holly		Х		
Illicium	anise	X	Х		
Juniperus	juniper, cedar	X	Х		
Lichens	lichens	X			
Ligustrum	privet		Х		
 Lycopodium	club moss	X	X		
Magnolia	magnolia	X	Х		Х
Mahonia	grape holly, Oregon grape		Х	Х	
Melaleuca	punk tree	Х	Х		
Myrica	myrtle	Х	X		
Palmaceae	palms	Х	Х		
Pandanus	screw pine, southern yew	X			

Table 3. Scientific Name Index - Foliages

Archival copy: for current recommendations see http://edis.ifas.ufl.edu or your local extension office.

Scientific Name	Common Name	Air Dry	Glycerine Treat	Press	Skeletonize
Podocarpus	podocarpus	Х	Х		
Prunus	plum and cherries		Х		
Quercus	oaks		Х		Х
Rumex	dock	Х			
Russelia	firecracker plant	Х			
Selaginella	selaginella	Х	Х	Х	
Taxodium	cypress	Х	Х		
Taxus	yew	Х	Х		
Tetrapanax	rice paper plant			Х	
Thuja	arborvitae	Х	Х		
Trevesia	snowflake plant			Х	
Vaccinium	huckleberry	Х			
Viburnum	viburnum		Х		
Үисса	уисса		Х		
Zamia	coontie	Х	Х		

Scientific Name	Common Name	Natural Dry	Air Dry	Desiccate	Press
Acalypha	chenille plant		Х		
Achillea	yarrow	Х	Х		Х
Agapanthus	lily of the Nile			Х	
Ageratum	floss flower		Х	Х	
Alcea	hollyhock		Х	Х	
Allamanda	golden trumpet			Х	
Allium	onion			Х	
Aloe	aloe			Х	
Alstroemeria	lily of the Incas			Х	
Althaea	mallow		Х	Х	
Amaranthus	amaranth	Х	Х		
Anthemis	marguerite			Х	Х
Anthurium	flamingo flower	Х	Х		
Antirrhinum	snapdragon			Х	
Aphelandra	zebra plant			Х	
Arctotis	blue eyed daisy			Х	
Artemesia	wormwood	Х			Х
Astilbe	spirea		Х		Х
Belamcanda	blackberry lily			Х	
Calendula	calendula			Х	
Calla	calla			Х	
Calycanthus	sweet shrub			Х	
Camellia	camellia			Х	
Celosia	princess plume and cockscomb		Х	Х	
Chrysanthemum	mum, daisy, feverfew etc.	Х	Х	Х	Х
Cirsium	thistle		Х		
Clematis	virgin's bower			Х	Х
Compositae	daisy and daisy-like flowers		Х	Х	Х
Consolida	larkspur			Х	
Cornus	dogwood			Х	
Cosmos	cosmos			Х	Х
Crinum	crinum lily			Х	
Crossandra	firecracker plant			Х	
Cynara	artichoke, cardoon		Х		
Dahlia	dahlia			Х	
Delphinium	delphinium			Х	
Dianthus	pink, sweet William, carnation			Х	Х
Echinops	globe thistle			X	X
Erica	heather	Х	Х		
Eupatorium	boneset		X		Х
Gaillardia	blanket flower			Х	X
Galphimia	thryallis			X	
Geranium	geranium			X	
Gerbera	African daisy			X	Х
Gladiolus	gladiolus			X	~

Table 4. Scientific Name Index - Flowers

Scientific Name	Common Name	Natural Dry	Air Dry	Desiccate	Press
Gomphrena	globe amaranth	Х	Х		
Grevillea	silk oak			Х	
Gypsophila	baby's breath	Х	Х		Х
Helichrysum	straw flower	Х	Х		
Heliconia	lobster claw	Х	Х	Х	
Hibiscus	hibiscus			Х	
Hippeastrum	amaryllis			Х	
Hydrangea	hydrangea	Х	Х		
lris	iris, flag			Х	
Ixora	ixora			Х	
Justicia species	jacobinia, Brazilian plume, shrimp plant			Х	
Liatris	liatris		Х	Х	
Lilium	lily			Х	
Limonium	statice	Х	Х		
Mathiola	stock			Х	
Molucella	bells of Ireland		Х	Х	
Narcissus	daffodil			Х	
Orchidaceae	cattleya, cymbidium, etc.			Х	
Passiflora	passion vine			Х	
Penstemom	beard tongue			Х	
Pentas	star cluster			Х	
Protea	protea		Х	Х	
Pyrostegia	flame vine			Х	
Reseda	mignonette			Х	Х
Rhododendron	azalea			Х	
Rosa	rose			Х	Х
Rudbeckia	blackeyed Susan	Х	Х		
Rumex	dock	Х	Х		
Russelia	firecracker plant			Х	
Salvia	sage, salvias			Х	
Sarracenia	pitcher plants		Х	Х	
Senecio	groundsel			Х	Х
Solidago	golden rod	X	Х		Х
Spathodea	African tulip tree			Х	
Spathiphyllum	spathe flower		Х	X	
Strelitzia	bird of paradise		X	X	
Stokesia	stokes aster		-	X	Х
Tagetes	marigold			X	
Tritonia	montbretia			X	Х
Verbena	verbena			X	X
Viola	pansy, violet			X	X
Zingiber	ginger, pine cone lily		Х	X	
Zinnia	zinnia			X	

Table 5.	Scientific	Name	Index -	Fruits
----------	------------	------	---------	--------

Scientific Name	Common Name	Natural Dry	Air Dry
Abelmoschus	okra	Х	Х
Acacia	mimosa, acacia	X	Х
Acer	maple	Х	Х
Aesculus	horse chestnut	Х	Х
Agapanthus	lily of the Nile	X	Х
Agave	century plant	X	Х
Althaea	hollyhock, mallow	Х	Х
Araucaria	monkey puzzle tree, Norfolk Island pine	X	Х
Asclepias	milkweed	X	Х
Віха	lipstick tree	Х	Х
Blighia	akee		Х
Bombax	red silk cotton tree	X	Х
Bromeliaceae	most species (Air Plants)	X	Х
Bucida	black olive	Х	Х
Caesalpinia	poinciana		Х
Callistemon	bottlebrush	Х	Х
Campsis	trumpet vines	Х	Х
, Capsicum	peppers		Х
Cathamus	safflower		Х
Carya	hickory	X	Х
Catalpa	Indian bean	X	Х
Ceiba	kapok		Х
Cinnamomum	camphor		Х
Cirsium	thistle	X	Х
Clerodendrum	glory bower		Х
Clusia	Scotch attorney		Х
Clytostoma	trumpet vine		Х
Cochlospermum	silk-cotton		Х
Cocos	coconut (fruit calyx)	X	
Combretum	combretum		Х
Crescentia	calabash	X	Х
Cycadaceae	cycads	X	Х
, Cynara	artichoke		Х
Dalbergia	sissoo		Х
Datura	angels trumpet		Х
Diospyros	persimmon		Х
Dipsacus	teasel	X	Х
Dombeya	dombeya		Х
Enterolobium	ear tree	Х	X
Erythrina	coral tree		X
Eucalyptus	gum tree	Х	X
Euonymus	spindle tree		X
Ficus	figs		X
Glycine	soybeans		X
Gossypium	cotton (calyx)	Х	X

Scientific Name	Common Name	Natural Dry	Air Dry
Gourds	many types	X	Х
Graminae	grasses (most species)	Х	Х
Heliconia	lobster claw		Х
Herbs	dill, anise, etc.	Х	Х
Hibiscus	hibiscus, mallow	Х	Х
Hippeastrum	amaryllis	Х	Х
Hydrangea	snow ball, hydrangea	Х	Х
Illicium	anise	Х	Х
lris	flag, iris	Х	Х
Jacaranda	jacaranda	Х	Х
Kigelia	sausage tree	Х	
Lagerstroemia	crepe myrtle	Х	Х
Lilium	lily (most)	Х	Х
Liquidambar	sweet gum	X	
Litchi	lichi	X	Х
Lunaria	honesty	X	Х
Lycium	peppers	X	Х
Macadamia	macadamia nut	Х	Х
Magnolia	magnolia	Х	Х
Melaleuca	honey myrtle	Х	Х
Molucella	bells of Ireland	Х	Х
Nelumbo	lotus	Х	Х
Nigella	love-in-a-mist		Х
Orchidaceae	orchids (most)		Х
Pachira	shaving brush tree		Х
Palmae	palms (most)	Х	Х
Pandanus	screw pine		Х
Pandorea	bower plant		Х
Papaver	poppies	Х	Х
Parkinsonia	Jerusalem thorn		Х
Paulownia	princess tree		Х
Physalis	Chinese lantern	X	Х
Picea	spruce	X	Х
Pinus	pine	X	
Pittosporum	pittosporum	X	Х
Porana	snow creeper		X
Probiscidia	unicorn plant	X	X
Protea	protea	X	X
Punica	pomegranate	X	X
Pyracantha	firethorn		X
Quercus	oaks	X	X
Raphanus	radish	X	X
Rhapiolepis	Indian hawthorn		X
Rhodomyrtus	downy myrtle		X
Rumex	dock	Х	X

Archival copy: for current recommendations see http://edis.ifas.ufl.edu or your local extension office.

Scientific Name	Common Name	Natural Dry	Air Dry
Russelia	firecracker plant		Х
Rhus	sumac	Х	Х
Samaneae	monkey pod tree	X	Х
Solanum	many species		Х
Sorghum	sorghum	X	Х
Spathodea	African tulip tree	X	Х
Spathiphyllum	spathe flower		Х
Sterculia	sterculia		Х
Swietenia	mahogany		Х
Tabebuia	trumpet tree	Х	Х
Tectona	teak		Х
Tsuga	hemlock	Х	
Typha	cattail	X	Х
Үисса	yucca, Spanish bayonet	X	Х
Zamia	coontie, sago palm	Х	Х