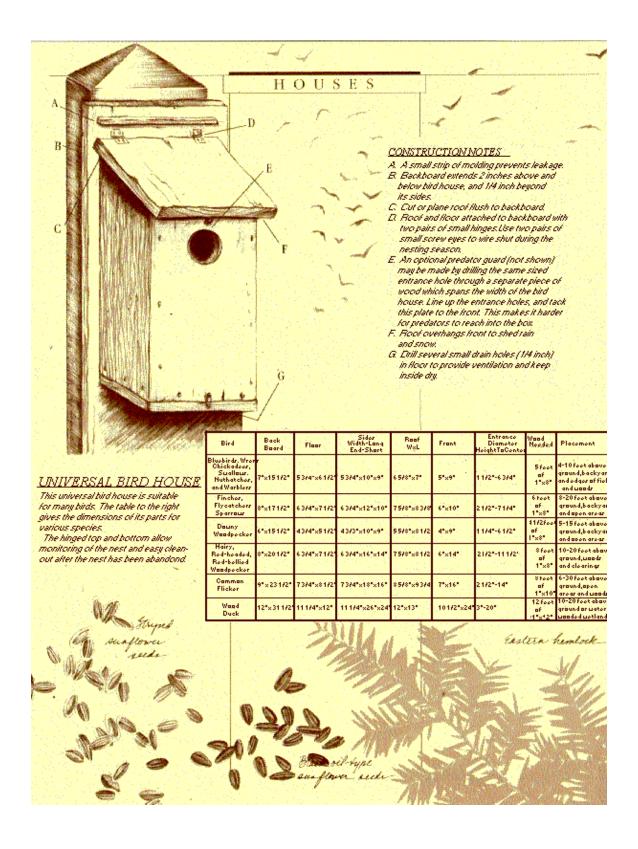
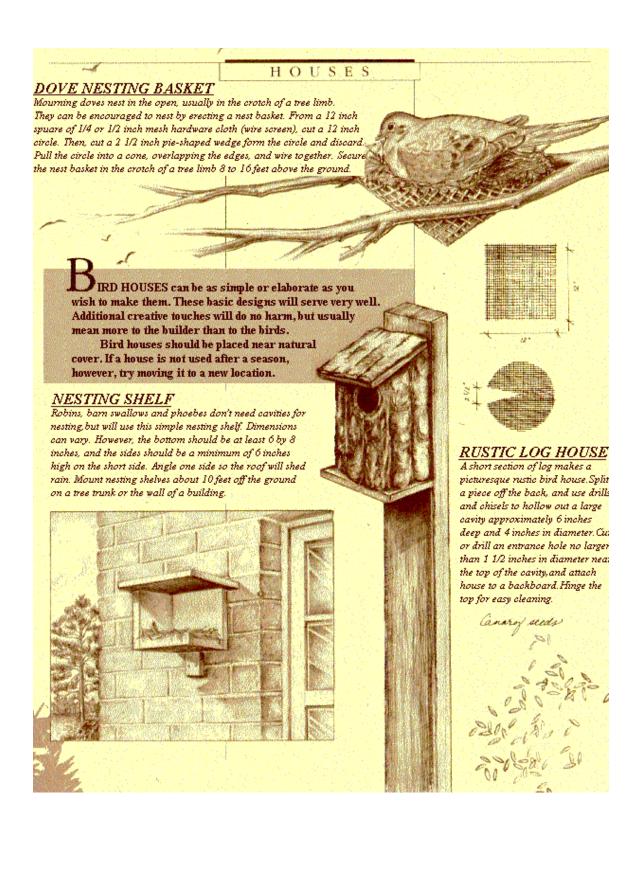
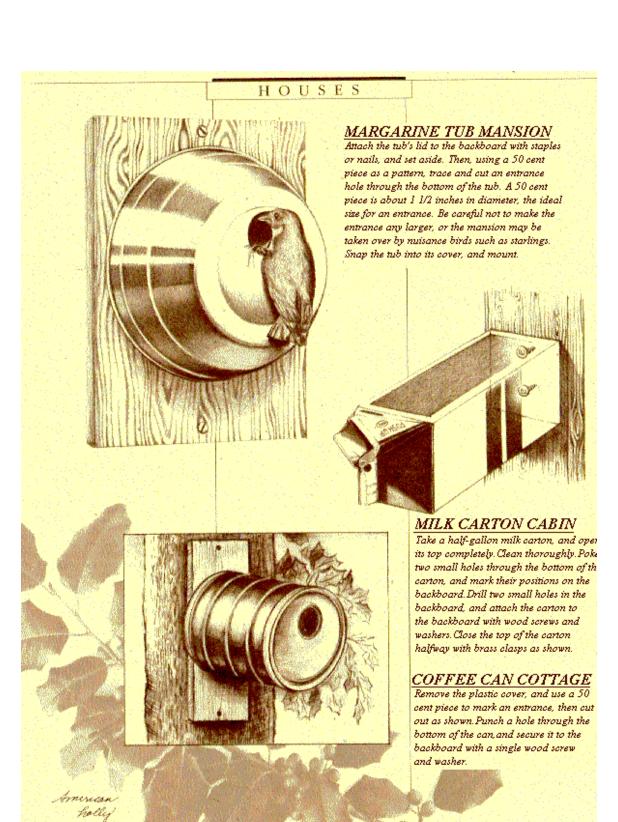
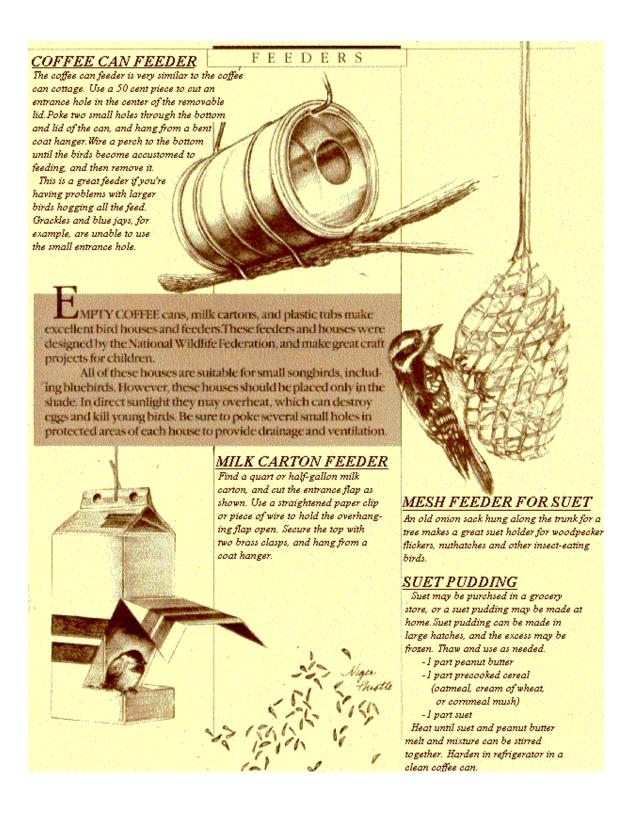


DIVISION of CONSERVATION EDUCATION, NORTH CAROLINA WILDLIFF RESOURCES COMMISSION









## FEEDERS

reEDING BIRDS is a wonderful way to enjoy them, and the variety of feeders that may be made at home is almost endless. It's best to place feeders near natural cover. Attaching a small, cone shaped predator guard made of a small piece of sheet metal above or below feeders will help foil cats and sometimes squirrels.

Once you begin a feeding program, be sure to continue through early spring. Many birds spend the winter near feeders instead of migrating south, and are dependent upon regular feeding for survival.

## PINE CONE FEEDER

A pine cone on a string is perhaps the simplest bird feeder. Smear the cone with peanut butter or suet pudding (see recipe on page 4) and hang from a tree to attract wrens, nuthatches and other small insect-eating birds.

## **FAVORITE BIRD FOODS**

SUET-blue jay, woodpecker, red and white breasted nuthatch, wren, tufted titmouse, chickadee, golden and ruby crowned kinglet, starling, grackle, flicker, brown creeper, redwinged blackbird.

SUNFLOWER SEEDS-chickadee, purple finch, junco, sparrow, brown thrasher, catbird, blue jay, tufted titmouse, Carolina wren, cardinal, chickadee.

SMALL MIXED SEEDS (hemp, millet rape, canary seed, chick feed, cracked com)-cowbird, grackle, redwing blackbird, brown thrasher, hermit thrush, house finch, catbird, snow bunting, horned lark, cardinal, pine siskin, pine growbeak, goldfinch, purple finch, sparrow, junco.

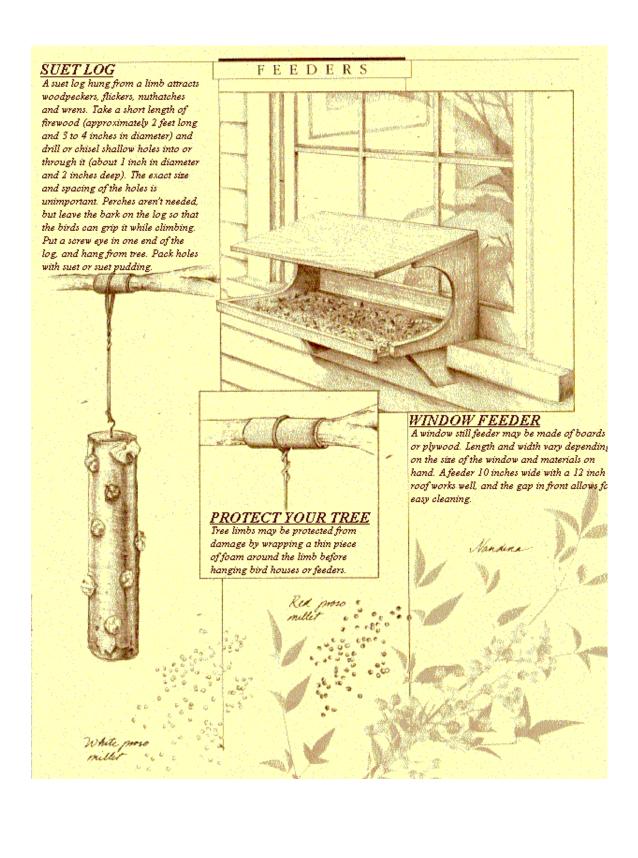
LARGE SEEDS (sunflower, wheat oats, com, millet, tye, buckwheat soybean)-quail, mourning dove, ruffed grouse.

PEANUT BUTTER NUTMEATS-growbeak, nuthatch, woodpecker, chickadee, blue jay, tufted titmouse, finch, cardinal, catbird, sparrow.

FRUIT (chopped apple, banana, raisins)-thrasher robin, myrtle warbler, hermit thrush, catbird, blue bird, woodpecker, mockingbird, cedar waxwing.

## TROLLEY FEEDER

Frolley feeders are suspended from a wire between tow objects, and slide within reach for easy filliting. Dimensions are unimportant, but the wire cone should be made of 1/4 inch mesh hardware cloth. Placing short lengths (2-3 feet) of garden hose on the wire on either side of the feeder will help foil squirrels.



## IMPROVING HABITAT FOR BIRDS

Landscaping your yard is an excellant way to attract more birds. Trees and shrubs offer cover and two sources of food to birds-the seeds, berries and fruits produced by the plants, and the insects attracted to the vegetation.

The most attractive habitat has a mix of trees, shrubs and grasses. Evergreen and deciduous trees and shrubs offer shelter and cover year-round. It's also imporant to have a source of water nearby such as a bird bath or backyard pool. Even a small pool below a rainspout can be freshened regularly with a hose.

The following trees and shrubs will attract a wide variety of birds. Check with a nursery or horticulturalist for cultural techniques and suitability to your area. GRASSES FLOWERS GROUND COVERS

Millets Sunflowers

#### SHRURS

Beautyberry
Blueberry
Blackberry
Smooth sumac
Elderberries
Pokeberries
Honeysuckle
Pyracantha
Nandina

### SMALL TREES

Cherries
Crabapples
Dogwood
Hawthorns
Hollies
Mulberry
Plums
Serviceberry

## LARGE TREES

Hackberry
Oaks
Pecans
Tulip poplar
Magnolia
Loblolly or longleaf pine
Carolina Hemlock
Eastern red cedar

# RESOURCES

## BUILDING TIPS

Expensive power tools or an elaborate shop aren't needed to build bird houses and feeders. A few basic hand toolssuch as a hammer, saw, screwdriver, chisel, and a hand or electric-powered drill are fine. Here are some hints on construction.

- Ireated lumber may produce fumes that are harmful to birds. Don't use it for bird houses. Common lumber, such as pine and spruce or fir, is fine for bird houses and feeders. More rot resistant wood, such as appress, cedar and redwood, also works very well, but is harder to find and more expensive. Exterior plywood may also be used, but must be painted and is more difficult to work with.
- Remember that lumber sizes are larger than their true dimensions. Because of shrinkage, one-inch boards are really only about 5 1/4 inches wide (take a tape measure to the lumber yard).
- Bird houses may be treated on the outside with a latex-based paint or stain. Keep the inside natural, however. Feeders may be painted or varished. Do not treat a house or feeder with creosote because it is toxic.
- Screws or nails ma be used as fasteners. Screws are more permanent, although a little more trouble. If you're building houses and feeders as a craft project with children, pre-drill the nail or screw holes.
- Perches should not be put on bird houses. They will only attract nuisance birds such as starlingsand house sparrows.

Gracantha

## INFORMATION

Invite Wildlife To Your Backyard and Birdwatching With Roger Tory Peterson (brochures). Single copies available free from the Division of Conservation Education, N.C. Wildlife Resources Commission, 512 N. Salisbury St., Raleigh, N.C. 27611.

Backyard Wildlife Habitat Program Information available from the National Wildlife Federation, Dept. MO, 1400 16th St. N.W., Washington, DC 20036.

#### Rooks

The Complete Book of Birdhouse Construction for Woodworkers by Scott Campbell. Published by Dover Publications, 31 East 2nd. St., Mineola, N.Y. 11501.

A Complete Guide to Brid Feeding by J.V. Dennis. Published by Alfred A Knopf, New York

Woodworking for Wildlife Homes for Birds and Mammals. Published by the Nongame Wildlife Program, Minnesota Department of Natural Resources, Box 7, Centennial Bidg., St. Paul, MIV 55155.

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