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Feeding and Attracting Wildlife Michigan State University Cooperative Extension Service G.R. Dudderar and R. W. George, Fisheries and Wildlife October 1975 12 pages

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COOPERATIVE EXTENSION SERVICE

MICHIGAN STATE UNIVERSITY

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By G. R. Dudderar and R. W. George, Extension Specialists, Department of Fisheries and Wildlife

You can make your yard a wildlife sanctuary. All you need to do is provide the food, cover, and water that wildlife needs to survive. Your sanctuary will pay big dividends, daily!

You will learn how wildlife is dependent on habitat for survival. You will see first-hand how wild animals live, behave, reproduce, and die. You will begin to understand some of the relationships between man and wildlife and appreciate roles wildlife play in the environment.

You will enjoy the wonderful phenomena that only wildlife can provide. You will see the brilliant red of the cardinal or the brassy iridescence of the pheasant, hear the reassuring spring song of the song sparrow, laugh at the comical cavorting of rabbits on moonlit snow, fuss at the plump-squirrel that raids your birdfeeder, wonder at the tiny chipping sparrow's ability to survive sub-freezing temperatures, or cry over the death of a young robin that didn't quickly learn the hazards of its environment. Your yard will become a stage that will provide you a living drama of humor, tragedy, and adventure with continually changing actors and scenes.

You will have the personal satisfaction of knowing that you are helping to provide for the survival of the other forms of life with which we share this earth.



REQUIREMENTS OF WILDLIFE

Wildlife will be attracted to your yard and live there if you supply its three basic needs—food, cover, and water.

Food: A variety of foods will insure an abundance of wildlife. Food can be provided naturally by planting a variety of food producing grasses, flowers, shrubs, and trees. Food can be provided artifically by a variety of feeding stations for both mammals and birds.

Cover: Protection from the elements and places to rest and raise young are essential components of any wildlife sanctuary. Tall grass and wildflowers, shrubs, brush piles, and trees—dead and alive—provide a variety of natural cover for wildlife. Artificial nesting boxes and houses can be used to supplement existing cover.

Water: In most cases, water must be provided artificially by devices such as bird baths. Simple or fancy, they are always attractive to birds.

This publication will tell you how you can provide these basic requirements for wildlife. It will be up to you to choose the methods most appropriate for your situation.

Some Hints: There is much you can do to increase your enjoyment of your wildlife sanctuary. Outdoor blinds or fine mesh curtains will permit closer observation. Floodlights will open a new nightime experience for you. In addition, your experiences will be more meaningful if you learn to identify your wildlife, to recognize its calls and songs, to keep track of numbers, species relationships, and behavior, to photograph your animals and to recognize tracks, and even to imitate their calls.

Don't be discouraged by initial failure or too many animals. Patience and experimentation will help you find the best location for the purple martins house, how to deal with over-abundant starlings, or how to prevent rabbits from consuming your food or flower gardens. If you can't solve the problem yourself, assistance is available from a wide variety of sources, such as the MSU Extension Service, the Michigan DNR, and the U.S. Fish and Wildlife Service.

ACKNOWLEDGEMENT

The authors express appreciation to the Carl G. Fenner Arboretum, City of Lansing, Parks and Recreation Department, and especially Joan Brigham, naturalist at the Arboretum for her input in the original publication. Birdhouse and feeder plans were prepared by Charles Shick, Michigan Department of Natural Resources.

NATURAL FOOD AND COVER

I. Select a small, convenient portion of your backyard and leave it alone. Don't do anything to it. The first year or two, it will consist of tall grass, but soon you will be treated to a beautiful display of wildflowers as well: white daisies, astors, Queen-Annes-lace, yarrow, and strawberry; yellow primrose, mullein, astors, coneflowers, and goldenrod; red phlox, clover, and thistle; and blue chockory, astor, and gentian. These plants will provide food and cover for many kinds of animals. To increase the variety of plants, stretch a rope across this plot; birds sitting on the rope will deposit new seeds in their droppings.

II. *Plant food and cover bearing flowers, vines, shrubs, and trees.* * These plants should be planted in clumps or rows where possible. If planted singly, the planting location should be where pruning is not essential.

Flowers

jewelweed geranium bee-balm nasturtium columbine sunflower coral bell cosmos

Vines

trumpet creeper wild grape Japanese honeysuckle Virginia creeper bittersweet

Low Shrubs (5 ft. to 10 ft.)

blackberry	barberry	Michig
blueberry	viburnum	Michiga
snowberry	aromatic sumac	Nationa
huckleberry		W/ashin

High Shrubs (10 ft. to 20 ft.)

bush honeysuckle	highbush cranberry
autumn olive	sumac
elderberry	spreading juniper
dogwood	firethorn
winter berry	multiflora rose
russian olive	cotoneaster

Small Trees (20 ft. to 30 ft.)

crabapple	mountain ash			
hawthorne	pin, choke, and other			
	small cherries			

(Continued)

* There are usually many varieties available for most of the plants listed. You will want to choose the variety most appropriate to your tastes and your situation.

Large Trees (30 ft. +)

evergreen white pine spruce red cedar jack pine hemlock deciduous beech oak mulberry birch black cherry hickory

ADDITIONAL REFERENCES

Audubon Guide to Attracting Birds, Edited by John Baker, Doubleday

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Michigan Audubon Society. *Enjoying Birds in Michigan*, 2000 North Westnedge, Kalamazoo, Michigan 49001

National Geographic. *Song and Garden Birds,* Washington, DC

Pettit, T.S. *Birds in Your Backyard,* New York, Harper Brothers

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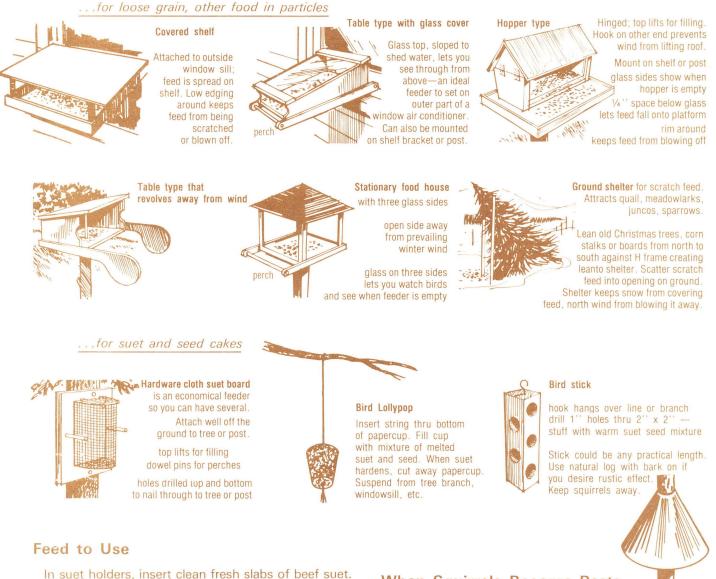
USDA. *Invite Birds to Your Home-Conservation Plantings for the Midwest,* PA-982, Superintendent of Documents, U.S. Government Printing Office, Washington DC 20402

USDA. *Attracting and Feeding Birds*, Conservation Bulletin No. 1, *Homes for Birds*, Conservation Bulletin No. 14, Superintendent of Documents, U.S. Government Printing Office, Washington DC 20402

ARTIFICIAL FEEDING

Start feeding in the fall when weather cools to keep some of the summer residents from deciding to move south. Birds are more likely to stay if they find dense shrubbery for shelter, and open water when the ground is dry and frozen. Once you start feeding, keep it up for birds soon come to depend on this steady supply. Should it disappear for long in midwinter, they could be in serious trouble. Put feeders where you can watch them. You may as well enjoy the show. Birds soon become bold enough to come even to window ledges. Don't begrudge sparrows a share—their friendly commotion around a feeder attracts more desirable birds.

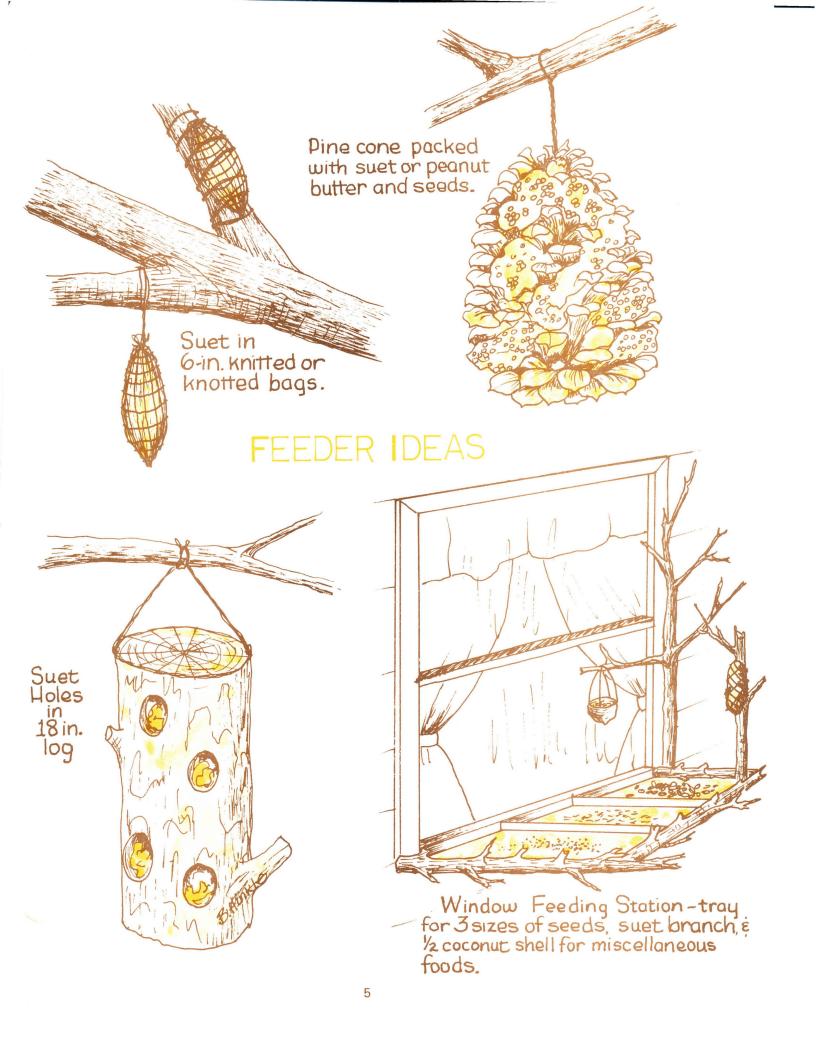
Types of Feeders



Stuff the holder full so birds can reach the food. Suet will attract jays, woodpeckers of all kinds, chickadees, nuthatches and starlings. Cakes in which seeds are bound together with melted suet or fat are sold commercially; it is also easy to make your own for filling special feeders such as paper cups or drilled logs. Merely heat suet to liquify it, mix in as much small bird food as you can, then pat into molds and let cool. Birds will also take peanut butter from such feeders.

When Squirrels Become Pests

When squirrels become pests by stealing from feeders (or sometimes even running off with the feeder) you can ward them off in various ways. Safeguard hanging feeders by suspending with wire, well away from nearby perches within leaping distance. Provide feeder posts with a guard made of sheet metal fitted around the shaft. Any local sheet metal worker can make such a device to suit your situation.



MOST COMMONLY ATTRACTED ARE:		
Chicadee Tufted Titmouse Downy Woodpecker Hairy Woodpecker Other Woodpeckers Red-breasted Nuthatch White-breasted Nuthatch	Brown Creeper Golden-crowned Kinglet Ruby-crowned Kinglet Bluejay Starling Squirrel	
Chicadee White-breasted Nuthatch Cardinal Bluejay Evening Grosbeak Crosbills	Chipmunk Tufted Titmouse Red-breasted Nuthatch Goldfinch Flying Squirrel	
	e weather is severe and when their natural food supply.	
Junco White-throated Sparrow Song Sparrow English Sparrow Goldfinch Pine Siskin Cardinal	Snow Bunting Tree Sparrow White-crowned Sparrow Purple Finch Pine Grosbeak Redpoll Horned Lark	
Bobwhite Quail Ruffed Grouse Mourning Dove Pheasant Meadowlark	Rabbits Chipmunks Flying Squirrels Other Mammals	
	Chicadee Tufted Titmouse Downy Woodpecker Hairy Woodpecker Other Woodpeckers Red-breasted Nuthatch White-breasted Nuthatch Chicadee White-breasted Nuthatch Cardinal Bluejay Evening Grosbeak Crosbills Almost all species when the snow and ice winter-lock Junco White-throated Sparrow Song Sparrow English Sparrow Goldfinch Pine Siskin Cardinal Bobwhite Quail Ruffed Grouse Mourning Dove Pheasant	

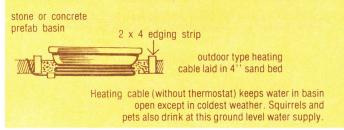
A TABLE OF FOODS FOR WINTER FEEDING STATIONS

Birds also require grit such as coarse white sand or ground-up clam shells or oyster shells to digest their food. Also, provide some coarse salt for northern finches that have a liking for this, such as siskins,

redpolls, and grosbeaks. SALT LICKS-blocks of rock salt may be purchased at feed stores to attract rabbits and other salt-loving mammals. Remember, water is always important at the dinner table.

How to Supply Water

In cold climates an open water supply is vital to birds. Where snow is plentiful the problem is slight, but where there is no snow, you must provide some source of moisture. Two homemade devices shown below will

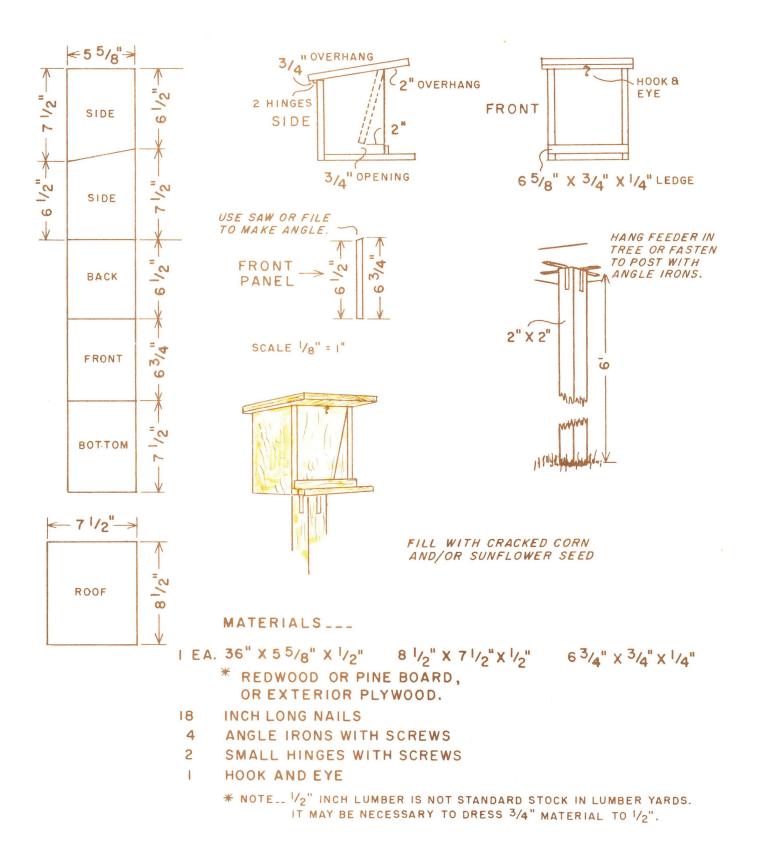


keep water unfrozen in all but the worst weather. A few manufactured devices are on the market for keeping water in bird baths unfrozen.

loss if necessary



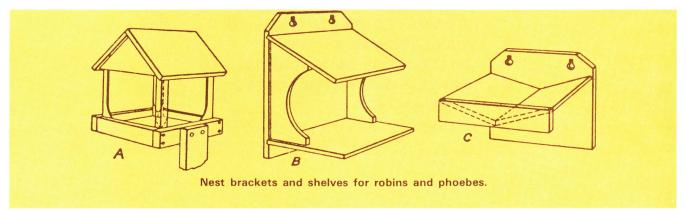
BIRD FEEDER PLANS



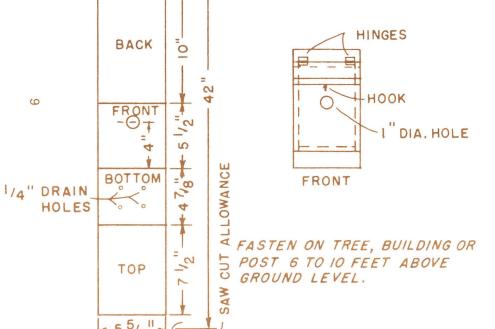
	Birdhouse Dimensions				
Bird	Floor of Cavity	Depth of Cavity	Entrance Above Floor	Diameter of Entrance	Height Above Ground
	inches	inches	inches	inches	feet
Bluebirds	5 x 5	8	6	1 1/2	5-10
Robin	6 x 8	8	*	*	6-15
Chickadees	4 x 4	8-10	6-8	$1^{1/8}$	6-15
Titmice	4 x 4	8-10	6-8	$1^{1/4}$	6-15
Nuthatches	4 x 4	8-10	6-8	11/4	12-20
House Wren	4 x 4	6-8	1-6	1	6-10
Bewick's Wren	4 x 4	6-8	1-6	1	6-10
Carolina Wren	4 x 4	6-8	11/8	6-10	
Tree Swallow	5 x 5	6	1-5	1 1/2	10-15
Barn Swallow	6 x 6	6	*	*	8-12
Purple Martin	6 x 6	6	1	21/2	15-20
Song Sparrow	6 x 6	6	**	**	2-3
Starling	6 x 6	16-18	14-16	2	10-25
Phoebe	6 x 6	6	*	*	8-12
Crested Flycatcher	6 x 6	8-10	6-8	2	8-20
Flicker	7 x 7	16-18	14-16	21/2	6-20
Red-headed Woodpecker	6 x 6	12-15	9-12	2	12-20
Downy Woodpecker	4 x 4	8-10	6-8	1 1/4	6-20
Hairy Woodpecker	6 x 6	12-15	9-12	11/2	12-20
Screech Owl	8 x 8	12-15	9-12	3	10-20
Saw-whet Owl	6 x 6	10-12	8-10	21/2	12-20
Barn Owl	10 x 18	15-18	4	6	12-18
Sparrow Hawk	8 x 8	12-15	9-12	3	10-20
Wood Duck	10 x 10	18-24	10-16	5	4-20

ARTIFICIAL COVER

* One or more sides open ** All sides open



3/8" THICKNESS *1 1/s" ='9 = SIDE ~ VENTILATION OPENING = ~ -~ SIDE 1/5 SIDE

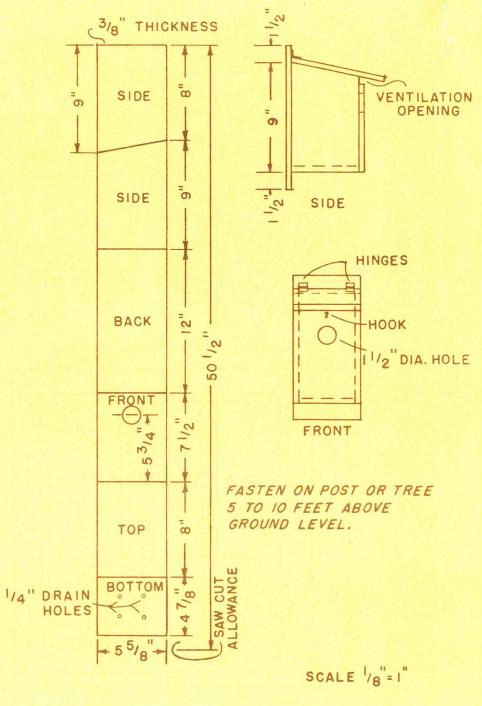


1/2

TOP

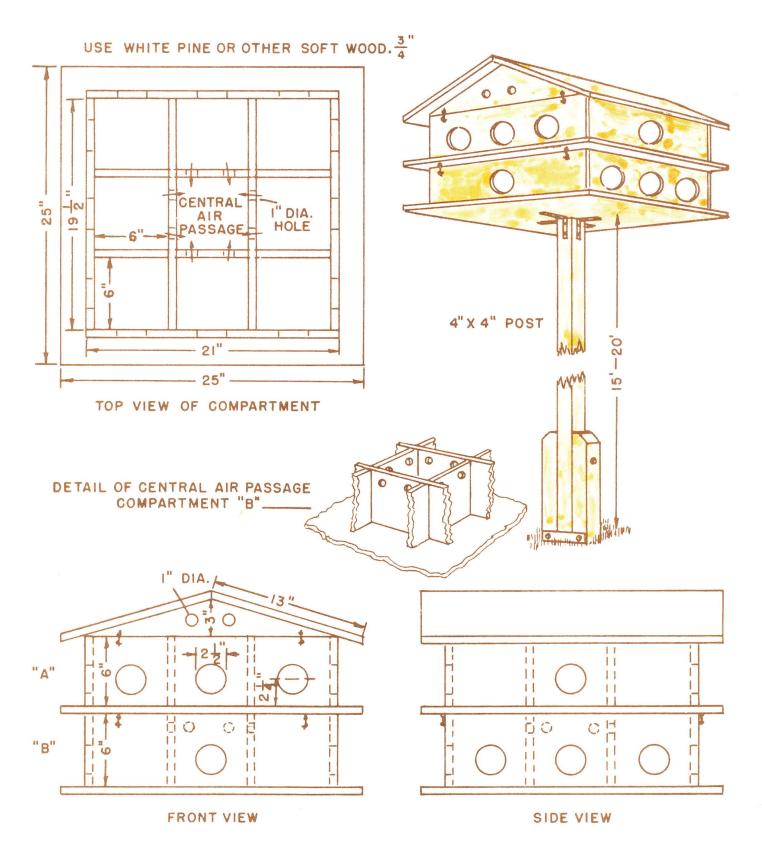
+ 5 ⁵/8¹¹ →

BIRD HOUSE PLANS FUR BLUEBINDS



SCALE 1/8 = 1"

PLANS FOR MARTIN HOUSE



SCALE 1 " = 1"





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