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Jeeding & Attracting Wildlife



COOPERATIVE EXTENSION SERVICE

MICHIGAN STATE UNIVERSITY

Jeeding & Attracting Wildlife

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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

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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

geranium nasturtium sunflower cosmos

Vines

trumpet creeper
Japanese honeysuckle
bittersweet

wild grape Virginia creeper

Low Shrubs (5 ft. to 10 ft.)

blackberry
blueberry
snowberry
huckleberry
native dogwoods

barberry viburnum aromatic sumac crown vetch

High Shrubs (10 ft. to 20 ft.)

bush honeysuckle
autumn olive
elderberry
flowering dogwood
winterberry
russian olive
nannyberry

highbush cranberry sumac spreading juniper firethorn multiflora rose cotoneaster

Small Trees (20 ft. to 30 ft.)

crabapple
hawthorne
serviceberry

mountain ash pin, choke, and other small cherries

(Continued)

Large Trees (30 ft. +)

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

ADDITIONAL REFERENCES

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

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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

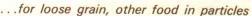
^{*}There are usually many varieties available for most of the plants listed. You will want to choose the variety most appropriate to your tastes and your situation.

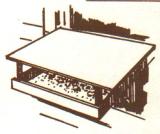
ARTIFICIAL FEEDING

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 upfor 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





Attached to outside window sill: feed is spread on shelf. Low edging around keeps feed from being scratched or blown off.

Covered shelf

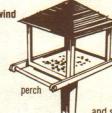


Glass top, sloped to shed water, lets you see through from above-an ideal feeder to set on outer part of a window air conditioner. Can also be mounted on shelf bracket or post.





Table type that revolves away from wind



open side away from prevailing winter wind

glass on three sides lets you watch birds and see when feeder is empty



Ground shelter for scratch feed. Attracts quail, meadowlarks, juncos, sparrows.

Lean old Christmas trees, corn stalks or boards from north to south against H frame creating leanto shelter. Scatter scratch feed into opening on ground. Shelter keeps snow from covering feed, north wind from blowing it away.

... for suet and seed cakes



Hardware cloth suet board is an economical feeder so you can have several. Attach well off the ground to tree or post.

> top lifts for filling dowel pins for perches

holes drilled top and bottom to nail through to tree or post



Insert string thru bottom of papercup. Fill cup with mixture of melted suet and seed. When suet hardens, cut away papercup. Suspend from tree branch, windowsill, etc.



Bird stick

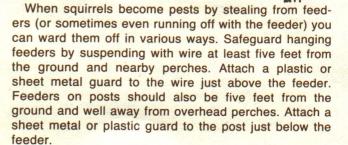
hook hangs over line or branch drill 1" holes thru 2" x 2" stuff with warm suet seed mixture

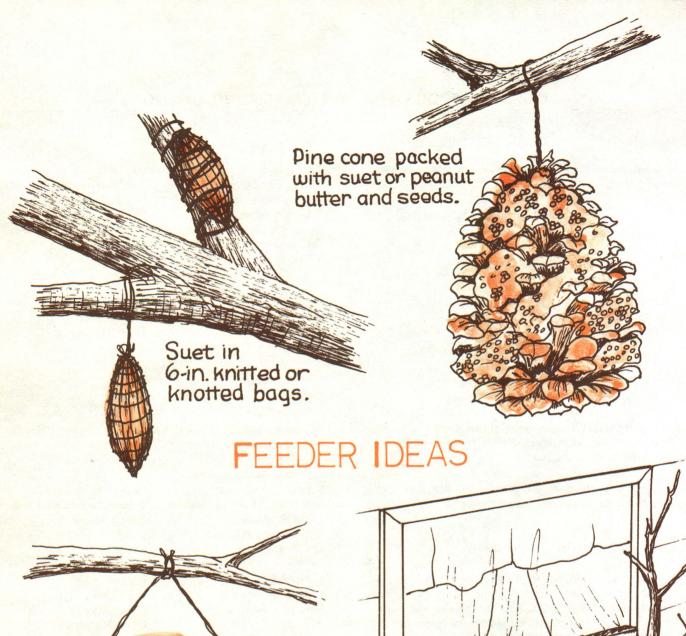
Stick could be any practical length. Use natural log with bark on if you desire rustic effect. Keep squirrels away



In suet holders, insert clean fresh slabs of beef suet. 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.

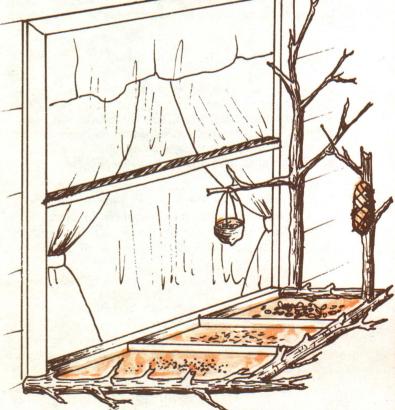
When Squirrels Become Pests







Suet Holes in 18 in. log



Window Feeding Station-tray for 3 sizes of seeds, suet branch, & 1/2 coconut shell for miscellaneous foods.

A TABLE OF FOODS FOR WINTER FEEDING STATIONS

Beef suet, hard fat, peanut butter, sweet butter, cottage cheese.	Chickadee 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	
Sunflower seeds	Cardinal	Chicadee	
(Large Striped Type)	Bluejay Grosbeaks Nuthatches	Purple Finch Tufted Titmouse Squirrels	
(Small Black Oil Type)	All of the above Goldfinch	Redpoll	
Crumbs, especially greasy ones of doughnuts, piecrust, heavy cake, pancakes, bread crumbs, pieces of fruit, apple cores, raisins and peels	Almost all species when the weather is severe and when snow and ice winter-lock their natural food supply.		
Small seeds, such as millet, buckwheat, cracked corn, canary seed, thistle seed,* sesame seed*	Junco White-throated Sparrow Song Sparrow English Sparrow	Pine Siskin White-crowned Sparrow Tree Sparrow Cardinal	
*especially for goldfinches, redpolls, siskins	Goldfinch	Redpoll	
Larger seeds, such as soybeans, sunflower seeds, sorghum, wheat, oats, corn. Some of these seeds should be left in the head, such as wheat, rye, corn, sunflower and millet. Corn ears may be mounted on sharpened sticks that have been driven into the ground or on sharpened nails driven into a rack.	Bobwhite Quail Ruffed Grouse Mourning Dove Pheasant	Rabbits Chipmunks Flying Squirrels Other Mammals	

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

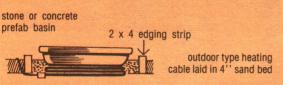
In cold climates an open water supply is vital to birds. Where snow is plentiful the problem is slight, but where there is no snow, you must provide some source of moisture. Two homemade devices shown below will

Heating cable (without thermostat) keeps water in basin

open except in coldest weather. Squirrels and

pets also drink at this ground level water supply

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



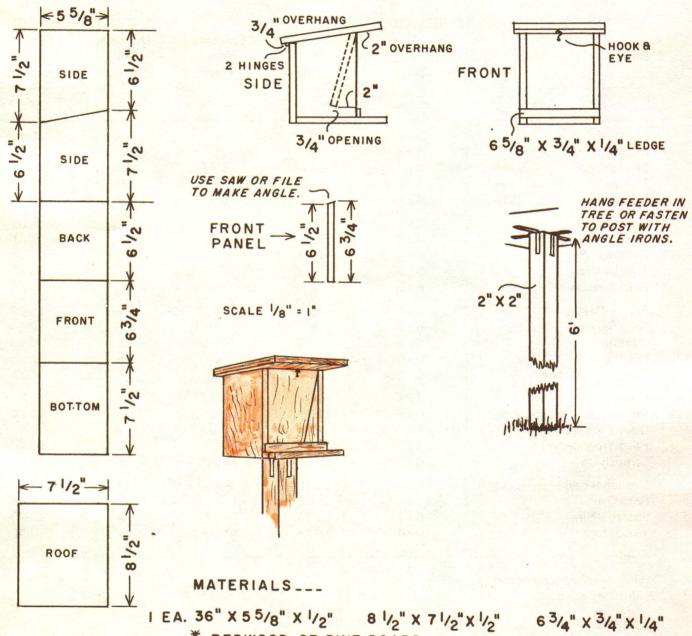
socket to hold 50W light bulb

any large flat basin, enamel-ware or ceramic, so feet will not freeze to rim; rests on large tinware funnel;

length of drain tile supports funnel
weatherproof electrical cord leading to outlet
Heat from lamp warms water in basin; prevents
freezeup in all but bitterest cold. Light burns
night and day. Insert weatherstrip between

funnel and basin to prevent heat loss if necessary.

BIRD FEEDER PLANS

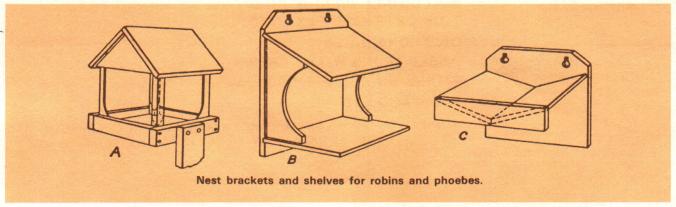


- * REDWOOD OR PINE BOARD, OR EXTERIOR PLYWOOD.
- 18 INCH LONG NAILS
 - 4 ANGLE IRONS WITH SCREWS
- 2 SMALL HINGES WITH SCREWS
- I HOOK AND EYE
 - * NOTE 1/2" INCH LUMBER IS NOT STANDARD STOCK IN LUMBER YARDS.
 IT MAY BE NECESSARY TO DRESS 3/4" MATERIAL TO 1/2".

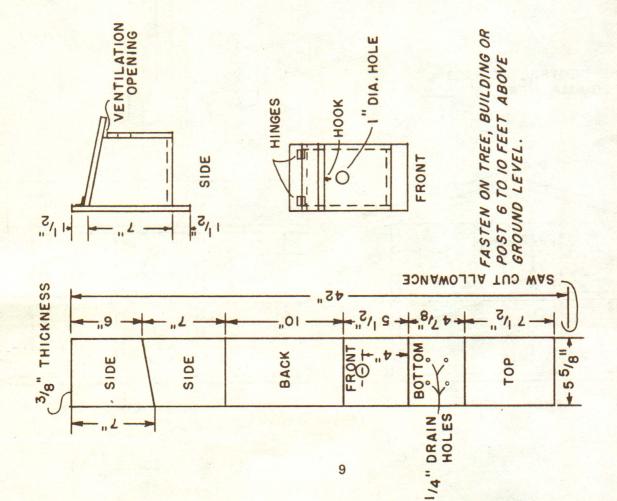
ARTIFICIAL COVER

	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	11/2	5-10
Robin	6 x 8	8	*	*	6-15
Chickadees	4 x 4	8-10	6-8	11/8	6-15
Titmice	4 x 4	8-10	6-8	11/4	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	
ree Swallow	5 x 5	6	1-5	11/2	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	6x6	16-18	14-16	2	10-25
hoebe	6x6	6	*	*	8-12
Crested Flycatcher	6 x 6	8-10	6-8	2	8-20
licker	7 x 7	16-18	14-16	21/2	6-20
Red-headed Woodpecker	6x6	12-15	9-12	2	12-20
Downy Woodpecker	4 x 4	8-10	6-8	11/4	6-20
lairy 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

^{*} One or more sides open ** All sides open

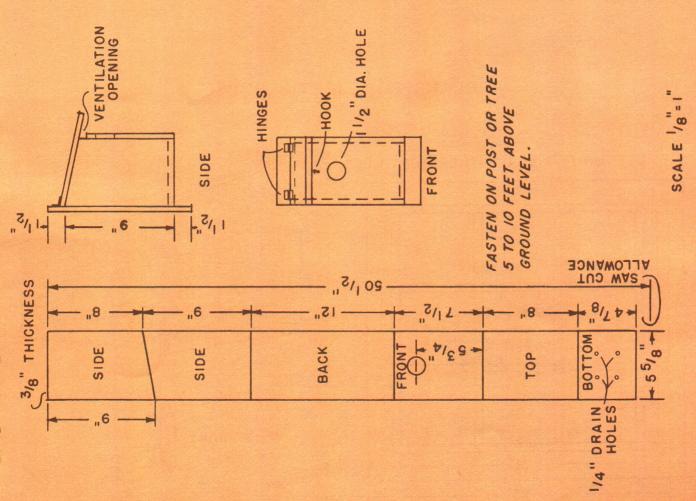


BIRD HOUSE PLANS FOR HOUSE WREN

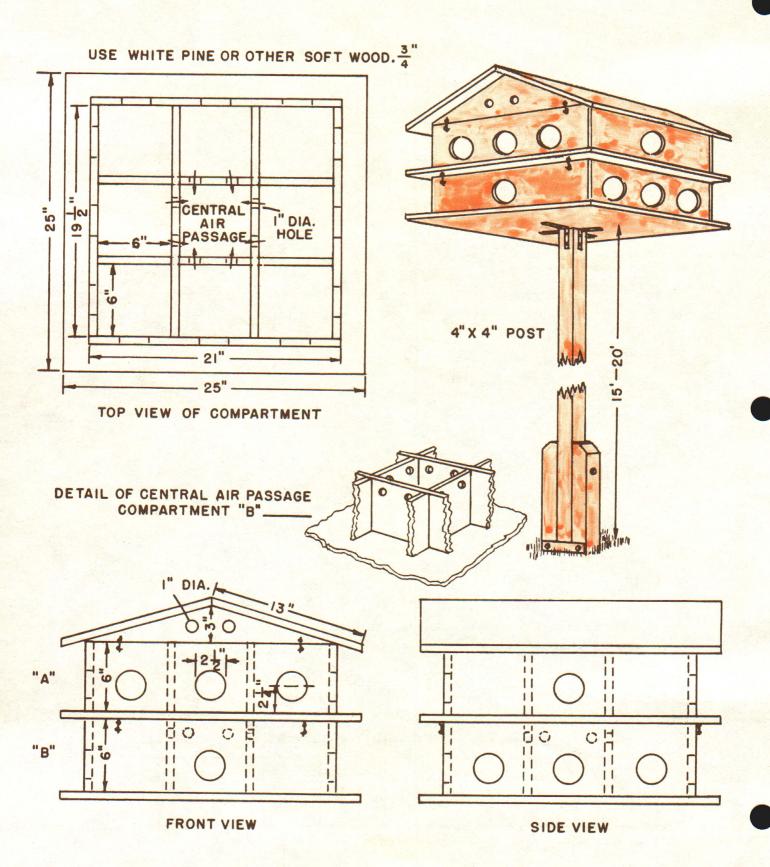


SCALE 1/8 = 1"

BIRD HOUSE PLANS FOR BLUEBIRDS



PLANS FOR MARTIN HOUSE





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