ABOUT THE COVER: NORTHERN SHRIKE

The Latin name for the Northern Shrike, *Lanius excubitor*, says a lot about the bird. *Lanius* means butcher, and *excubitor* means sentinel or watchman. The "butcher-bird" description comes from the shrike's habit of impaling its rodent or avian prey on thorns, twigs, or barbed wire, or jamming the prey in the fork of a branch, to store it or to facilitate tearing it apart. On cold winter days, we search for a Northern Shrike perched atop tall trees or shrubs, from which it watches for predators and searches for its prey.

The Northern Shrike differs from the similar Loggerhead Shrike in a number of ways. It is larger, has a grayer head, a narrower mask which does not extend above the eye, a larger bill, and faint gray barring on the ventral plumage. At a distance or at a glance, a Northern Shrike may be confused with a Northern Mockingbird, whose color pattern is vaguely similar; moreover, both species often perch in the open. Northern Shrikes are monomorphic but juvenile birds have a distinctly brownish or rusty cast and a less pronounced mask. The species is highly polytypic, with at least seventeen subspecies worldwide, two of which are recognized in North America.

Northern Shrikes are Holarctic in distribution, and in North America their breeding range extends from Alaska through a narrow band of central Canada, around the southern part of Hudson Bay, to Labrador. Most Northern Shrikes are migratory. Their wintering range includes roughly the northern half of the United States and southern Canada, but along the coasts they winter to Alaska and Newfoundland. The species is often erratic in its winter distribution and irruptive, with birds on the east coast sometimes reaching as far south as Virginia. During "flight years" in Massachusetts, shrikes may begin to appear as early as late October, with peak numbers in December and January. They are usually gone by early April.

On the breeding grounds, Northern Shrikes prefer semi-open areas: taiga, scrub, and bogs, or open deciduous and coniferous forest. Their song is a soft but melodious jumble of warbles, harsh notes, trills, whistles, and mimicked song of other species. They may sing year-round, and it is an odd sensation to listen to their soft warbling amid the snow and ice of midwinter in Massachusetts. Northern Shrikes are highly territorial birds with a variety of aggressive displays and appeasement postures. Courtship displays include extensive nuptial flights by the male, with spiralling, hovering, gliding, and calling.

The breeding biology is poorly known for North American races, but is well described for Eurasian birds. The male "shows" the female a number of possible nest sites. Both birds participate in nest construction and territorial defense, and have been know to hover and dive at a human intruder. The nest is often in a spruce and is a bulky affair of twigs, roots, grass, bark, and feathers. Four to six off-white eggs, splotched olive, brown, and pinkish, is the usual clutch. Incubation lasts for about two weeks, and is done mostly or exclusively by the female that is brought food by the male. The fledging period is about three weeks.

Northern Shrikes are versatile foragers and alter their diet in response to conditions. They prefer small mammals—shrews, mice, voles—and insects, but shift to a diet largely of birds when the snows of winter eliminate or obscure their preferred prey. Shrikes may wait and watch from a perch and then pounce on prey, or fly low over the ground, presumably to avoid detection. Birds are caught more easily by surprise at perches than in direct pursuit. Shrikes may search for insect prey by hopping along on the ground. They lack the talons and strong grasping feet of raptors, and so rely mainly on their hooked beaks for subduing prey. Shrikes kill vertebrate prey by severing the spinal cord at the base of the skull, and occasionally strike the base of the skull with their bill. Birds caught in flight are usually driven to the ground before being killed. Shrikes remove the stinger out on branches. Largely solitary outside of the breeding season, Northern Shrikes may defend winter territories. Like raptorial species, shrikes regurgitate pellets of bone, fur, and feathers.

The irruptive behavior of Northern Shrikes, and their proclivity for frequenting winter birdfeeding stations, occasionally has brought them into hazardous conflict with humans. In the late nineteenth century, about 50 were shot in a single winter by wardens of the Boston Common, who were protecting the newly introduced European House Sparrows! In the large flight of 1926-1927, 62 shrikes were reported "destroyed" by bird banders along the east coast. Their arctic breeding grounds free them, however, from most human disturbance and pesticides. Northern Shrikes do not occupy all of the potentially suitable breeding habitat of the far north, and it is suggested that winter resources and severe climatic conditions are the principal factors which limit their populations. Presumably, it is harsh conditions that render small mammal prey inaccessible, and/or a failure of the prey populations, that drive these magnificent predators into our area to brighten our winters.

W.E. Davis, Jr.

ABOUT THE COVER ARTIST

Barry van Dusen, an artist and illustrator based in central Massachusetts, appears frequently on *Bird Observer* covers. One of Barry's recent projects was providing plates (mainly terns and gulls) for a section called "The Aerialists" in *All the Birds of North America*, a new field guide produced by the American Bird Conservancy. The largest exhibition to date of Barry's art was held April 25 through May 23 in the Crocker House at Wachusett Meadow Sanctuary. M.L.P.

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