

## BREEDERS, MOVERS, AND FLOATERS — AMONG-YEAR MOVEMENTS OF NORTHERN GOSHAWKS ON THE TONGASS NATIONAL FOREST AND IMPLICATIONS FOR MONITORING

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We radiotagged 49 adult goshawks from 1992 to 97 and used extensive aircraft tracking to monitor among-year movements, pairing, and nest locations. Goshawks were captured at active nests and produced young in their year of capture. We considered 5 outcomes when summarizing among-year movements: 1) nesting in same forest stand, 2) not nesting but in same use area, 3) nesting in alternate forest stand but in same use area, 4) nesting in new stand in new use area, and 5) floating. We used a bird-year as a sampling unit which represents the known fate of a goshawk across 2 breeding seasons. For 10 adult males representing 15 bird-years, 2 males moved a total of 3 times, all within their original use area. The maximum movement to a new nest by a male was 2.9 km. We could not locate active nests for 4 males whose mates moved or died after the previous nesting season. For 13 adult females representing 24 bird-years, 9 moved to different nesting areas and 3 moved to a different nest stand within their original use areas. The maximum movement between nests by a female was 150 km. Our data suggest 4 instances of non-nesting and floating by adult females that previously produced young. Results suggest that long-term monitoring of nest stands for activity will only meet a limited set of objectives. Inferences about territory occupancy and population status requires a complete study area search or some other sampling framework.

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