

Once, by mistake, members of the 0-26 colony entered a nest of *F. fusca* Linne. They were engaged in a fight and succeeded in taking away only 4 pupae.

Ordinarily a column of *Polyergus* did not disturb other ants which they passed by; but when some individuals aroused a *F. subintegra*-*F. fusca* colony by investigating openings in the nest, they were attacked by both species of the mixed colony and some were killed. Once *F. obscuriventris* Forel workers intercepted *Polyergus* individuals returning home with brood and hijacked a few pupae.

SUMMARY

At the Edwin S. George Reserve, in southern Michigan, slave-making raids of the ant *Polyergus lucidus* Mayr took place in the late afternoon (3:06-7:30 PM), at high to medium temperatures (91°-67°F) and reduced light (6,300-216 foot-candles). The slave ants were *Formica pallidefulva nitidiventris* Emery, but *F. neogagates* Emery and *F. lasioides* Emery were also raided by some colonies.

It was concluded that scouts individually find nests and lay odor trails back to the home colony. Raiding groups go directly to the nests to be plundered. Pheromone trails, which ants would follow, could be made from a solution of *Polyergus* workers crushed in dichloromethane. A raid on a *F. p. nitidiventris* colony, in a box placed 6 feet away, was induced in this manner.

The raiding season began in mid-June and lasted into September. It coincided with the time when the slave species had pupae in the nest. It was estimated that about 50 raids could be made in an 85-day season. On some days double, or even triple, raids occurred.

Distances traveled to a raided colony ranged from 15 to 286 feet. Ants in a raiding group traveled about 3 feet a minute. An entire raid might be finished in 20 minutes or might take as long as 2 hours and 19 minutes. The mean time was one hour.

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