

from my notes selected data on a single *duloticus* colony. Since the dates given for the development in the artificial nest do not correspond to those obtaining under natural conditions, the series is "dated" by the parallel development of *curvispinosus* brood at the same time and under similar conditions.

March 1, 1938. Colony contains 28 *duloticus* workers, 1 dealate *duloticus* queen, about 40 slaves and 10 small larvae (about $\frac{1}{4}$ the size of a worker). Larvae in the *curvispinosus* colony about the same size.

March 15. Growing season begins.

March 20. *Duloticus* colony: larvae unchanged in size; 1 egg. *Curvispinosus* colony: larvae growing; a few eggs.

March 25. *Duloticus* colony: larvae unchanged; 12 eggs. *Curvispinosus* colony: larvae half grown; many eggs.

April 3. *Duloticus* colony: larvae unchanged; 30 eggs. *Curvispinosus* colony: many larvae nearly grown; many eggs.

April 10. *Duloticus* colony: larvae unchanged; about 40 eggs, a few of which are hatched; 4 *duloticus* workers scouting in the box in which the nest chamber is placed. *Curvispinosus* colony: 6 larvae in the semipupal stage.

April 15. *Duloticus* colony: larvae growing slowly; many eggs hatched; 3 workers scouting. *Curvispinosus* colony: a few pupae and many semipupae.

April 22. *Duloticus* colony: larvae nearly as large as the *curvispinosus* slaves; larvae hatched from the eggs growing rapidly (about 35); 6 to 8 workers scouting. *Curvispinosus* colony: many pupae, a few of them coloring.

April 29. *Duloticus* colony: original larvae, quite large; 35 new larvae as large as the workers; 15 workers scouting. *Curvispinosus* colony: many pupae coloring yellow, some emerging.

May 6. *Duloticus* colony: original larvae in semipupal stage; 35 large larvae and many smaller larvae and eggs present; 15 to 20 workers scouting. *Curvispinosus* colony: pupae emerging rapidly; nuptial flights.

May 10. *Duloticus* colony: 18 semipupae; many other larvae of all sizes. *Curvispinosus* colony: first batch of pupae nearly all emerged; nuptial flights over.

May 16. *Duloticus* colony: 2 female, 4 worker pupae; 20 semipupae, 30 large or medium-sized larvae; many workers scouting. *Curvispinosus* colony: entered on the "summer period"; larvae pupating and pupae emerging continually.

May 30. *Duloticus* colony: 2 female, 1 male, about 45 worker pupae, a few semipupae and larvae; 15 to 20 workers scouting.