"borer" in a fruit or other tree might be ascertained in the same manner by the use of a tube of wood or tin-plate formed like a stethoscope or ear-trumpet; by applying the wide end to the tree and the small end to the ear, the exact locality of the grub could be determined, when the application of a stout brad-awl or small gimlet would put an end at once to his life and his depredations without material injury to the tree.

JAMES T. BELL.

NOTE ON CHRYSOMELA JUNCTA, C. 10-LINEATA AND CARYOBORUS ARTHRITICUS.

DEAR SIR,—

During last Aug. and Sept. *Chrysomela juncta* has been more abundant than I have ever before seen it in this vicinity, and with larvæ was feeding on the leaves of *Solanum carolinense*, in company with *Chrysomela 10-lineata* and *larvæ*. The larva of *juncta* differs from *10-lineata* in being stouter and with the head larger. The color is dirty white. They are readily distinguishable apart. I took in the sexual act a male of *juncta* and female of *10-lineata*, and Mr. Siewers, of Newport, also observed the two species in intercourse. In the neighboring potato fields were thousands of *10-lineata*, but no *juncta*. Specimens killed in cyanide and pinned immediately after death all turned black in drying; to get a few good specimens I flexed the abdomen down, cut an incision along the top and removed the soft parts, put in a amall quantity of arsenic and filled the cavity with cotton—getting as a result bright and beautiful specimens.

A friend in Fla. writes, saying: "I send a box of seed of the 'Cabbage' tree. I gathered them and put them away, and when I opened the box I found a bug in every seed. What are they?" The seeds, about 100, are of the *Sabal* palmetto; out of the entire lot only two or three did not contain a beetle, *Caryoborus arthriticus* Fab. The entire inside portion of the seed being eaten out and the insect filling the cavity, a round cap had been formed—by the larva, perhaps, cutting a ring through to the external skin of the seed on the inside, leaving it so that a push would burst it outward. The cap was in many cases burst off, and in all cases the insect was presented towards the opening tail foremost; all were dead. Is this one of the uses of the powerful posterior legs of this species, to burst the skin of the seed and thus get out?

CHAS. DURY, Avondale, Ham. Co., O.