

instar II nymph was collected April 30, on *Chamaecyparis obtusa* at Harrisburg. It was reared on spruce mites on sprigs of its host and matured on May 20. An instar IV nymph was collected on Irish juniper infested with aphids, *Cinara* sp., in a Butler Co. nursery on August 14, and a fifth instar was found on Hetz juniper infested with juniper scale in an Allegheny Co. nursery on May 26. Two adults were taken on eastern arborvitae in a Snyder Co. nursery on June 18. *P. neglectus* is known to be predaceous (Knight 1941).

Psallus piceicola Knight. — The usual host is spruce, but this mirid also breeds on Irish juniper. We found a large population on this host in an Indiana Co. cemetery during June 1973 and August 1974. *P. piceicola* was also taken on Irish juniper in nurseries in Butler, Erie, Northumberland, Tioga, and Washington counties. A fifth instar was collected in June on eastern arborvitae in Delaware Co. Brown and Clark (1956) suggested that *piceicola* has predaceous tendencies, but their specimens from larch may actually have been *Plagiognathus laricicola* Knight, a species similar to *piceicola*.

DISCUSSION

Except for *Phytocoris brevisculus*, the mirids found breeding commonly on arborvitae, false cypress, and juniper in Pennsylvania have previously been recorded from cupressaceous plants. Native red cedar has most often been reported as a host; mirids have not been collected extensively on ornamental arborvitae and juniper, and in fact, definite associations with ornamental species and cultivars have never been established. We have found that most of the species and cultivars of juniper and the two species of arborvitae used commonly in ornamental plantings serve as hosts of mirids. We record *Chamaecyparis* as a new host plant for the Miridae and juniper as the first coniferous host of *Phytocoris brevisculus*.

Dichroscytus elegans, *D. repletus*, and *Parthenicus juniperi* were abundant on native red cedar and on ornamental arborvitae and juniper. These mirids were associated with nearly all the common juniper cultivars and varieties with the notable exception of Irish juniper. This cultivar, however, supported the only pop-