

iii. Accomplishments (October 1, 2001 through September, 30, 2006):

- 1) The committee provided interaction among biological control and host plant resistance workers to coordinate research on the integration of control tactics for cereal aphids.
- 2) Multi-state release of Russian wheat aphid resistant barley cultivars, Stoneham and Sidney, adapted to the western U.S.
- 3) Members of the group documented the occurrence of a new Russian wheat aphid biotype that is virulent on the previously released resistant varieties and other members have screened the wheat germplasm for new sources of resistance to this new biotype.
- 4) Protocols for identifying biotypic variation and designation of Russian wheat aphid biotypes were developed.
- 5) There has been incorporation of integrated management strategies of cereal aphids (including availability of aphid resistant cultivars, recognition of biological control organisms, and use of economic thresholds and natural enemy thresholds) into Cooperative Extension materials. Including the Glance'N Go sampling system for greenbugs. With work now underway to produce a similar system for the Russian wheat aphid.
- 6) USDA-ARS Areawide Pest Management project 'Biologically Intensive Areawide IPM of the Russian Wheat Aphid and Greenbug' was continued and accomplishments were highlighted in a Symposium at the Annual Meeting of the Entomological Society of America in December of 2005.