Section III
Biological & Cultural Control

CEREAL LEAF BEETLE LARVAL PARASITE ESTABLISHMENT
IN SOUTHCENTRAL IDAHO, 2000

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Cereal leaf beetle (CLB) parasites were released at two locations. The first location near Albion, Idaho was inoculated with approximately 500 larval (Tetrastichus julus) and 500 egg parasites (Anaphes flavipes) in Jul 1999. The second location, near Burley, Idaho (Coors Barley Nursery), was inoculated with approximately 1,000 larval parasites in Jul 2000. Evaluations of parasite establishment and rates of parasitism were conducted on larvae, which were examined for the presence of larval parasites. No larvae were collected in 2000 at the Coors Barley Nursery. Larvae were collected at the Albion location on two separate dates, 2 and 14 Jun. Leaf sections with larvae attached were collected into plastic culture plates and removed to the laboratory for dissection. Individual larvae were live dissected and examined for parasitic larvae.

Early larvae samples were dissected (n=70) and were found to have 50% parasitism with an average of 5.54 parasite larvae per cereal leaf beetle larvae. Early sampled CLB larvae were first instar through third instar stages. Later samples (n=26) were found to have 100% parasitism rates with an average of 5.0 parasite larvae per cereal leaf beetle larvae. Later sampled CLB larvae were primarily later instar stages. No egg parasites have been recovered.