

Section III  
Biological & Cultural Controls

BIOLOGICAL CONTROL PROJECT FOR CEREAL LEAF BEETLE, *OULEMA*  
*MELANOPUS* LINNAEUS, SUPPRESSION IN IDAHO

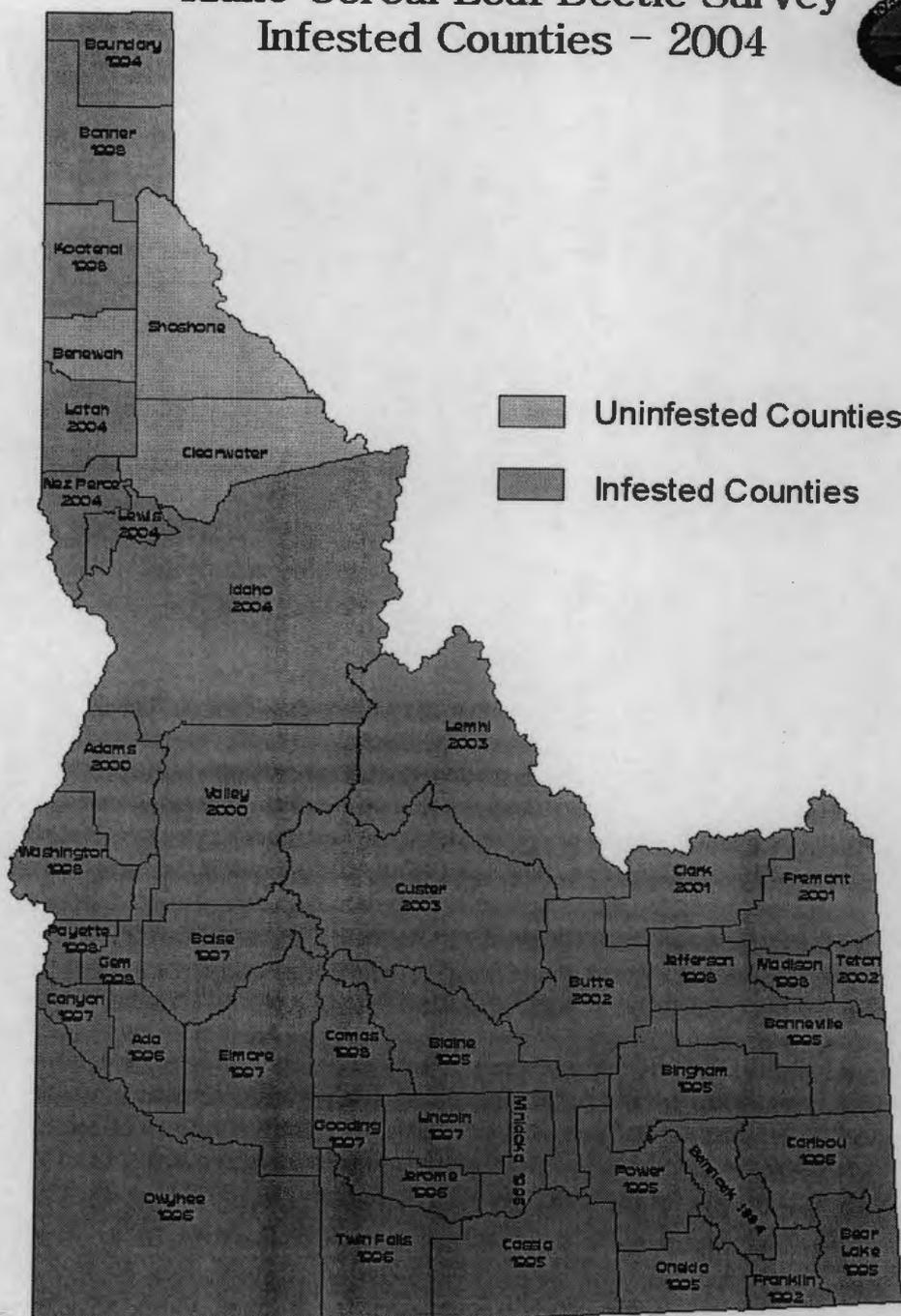
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CLB was detected in Lewis, Nez Perce and Latah counties for the first time in 2004. Five fields were surveyed in Benewah County but no CLB was detected. Surveys in Shoshone and Clearwater counties were also negative for CLB establishment. Biocontrol agent releases were made of the larval parasite, *Tetrastichus julis*, at new site in Kootenai County outside of Post Falls ID. A new establishment record for this biological control agent was recorded in Boundary County in 2004. A survey conducted on June 23 found a *T. julis* parasite level of 8% in the CLB larval sample from that county. A larval sample collected June 24, from a wheat field in Canyon County, near Kuna, ID had a *T. julis* parasite level of 56%. A field insectary for the egg parasite *Anaphes flavipes* was initiated this spring at the University of Idaho, Parma Research and Extension Center, Parma, Idaho with cooperation from the University of Idaho and USDA, PPQ. Four releases of egg parasites shipped in from the USDA, Niles Lab, Niles, Michigan, were made during the peak CLB egg-laying period (April 27, May 11, May 19, and May 26). Follow up surveys will be conducted spring of 2005 to determine if the egg parasite successfully established in the insectary field. Maps showing Idaho counties positive for CLB and *T. julis* larval parasite establishment are attached.



# Idaho Cereal Leaf Beetle Survey Infested Counties - 2004





# 2004 Cereal Leaf Beetle Parasite *Tetrastichus julis*

