

ABSTRACT

ANTIBIOTIC RESISTANCE PATTERNS OF *SALMONELLA* *ENTERICA* SUBSP. *ENTERICA* SEROVAR DUBLIN FROM PRE-WEANED DAIRY CALVES IN THE CENTRAL SAN JOAQUIN VALLEY, CALIFORNIA

The objectives of this study were to compare temporal and farm-type trends in antibiotic resistance patterns in *Salmonella enterica* subspecies *enterica* serovar Dublin (*S. Dublin*) in clinical submissions from pre-weaned calves. A total of 344 *S. Dublin* isolates were obtained from fecal or internal organs from dairy and calf-ranch reared calves under 60 days of age from July 1998 to December 2002. There were significant decreases in disk diffusion zone sizes for 8 of 12 antibiotics tested from 1998 to 2002. There were also significant differences in disk diffusion zone sizes for 7 of 12 antibiotics, comparing calf-ranch and dairy raised calves. Both variables, year and farm-type, showed a decreasing disk diffusion zone size, concluding that *S. Dublin* is becoming more resistant to the antibiotics tested.

Elizabeth Renee Thornburg
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