Project Title	Blackhead Epidemiological Data Collection and Comparison
Date submitted	December 21, 2020
Submitted by	
Summary	Michel Benoit, General Manager, BCTMB Histomoniasis (blackhead) is a serious and ultimately fatal protozoal disease of
Summary	turkeys, chickens, peafowl and gamebirds. The transmission cycle of Histomonas
	meleagridis is complicated by the prolonged environmental stability enabled by
	physically protective vectors such as the cecal worm (Heterakis sp) egg and common
	earthworms. Earthworms are mobile, can move significant distances and are
	attractive to gallinaceous birds, making birds raised on range especially susceptible to
	infection. There is currently no approved treatment for blackhead therefore there is
	strong reliance on prevention through biosecurity, confined rearing and litter
	management.
	The BC turkey industry is currently experiencing an unprecedented multi-farm
	outbreak of blackhead that has serious economic consequences for the growers, the
	processors and the hatchery. The entire production stream, including retailers, has
	been negatively impacted as on-farm mortality has risen to significant levels. Farm
	gate losses so far in 2020 exceed \$500,000 and there has been significant disruption
	to the supply chain and the Province's food security. Producers are worried and
	discouraged by the lack of a readily available treatment or effective intervention.
	The goal of this multi-faceted collaborative study is to gain a better understanding of
	the epidemiology of the current blackhead outbreak, identify on-farm reservoirs and
	risk factors, and to formulate an effective treatment and disease prevention strategy.
	The study will include six sub-projects.
	Data Capture & Analysis - establish baseline disease prevalence through
	coordinated diagnostics
	2. Validate the Histomonas PCR for environmental testing
	3. Evaluate efficacy of Paromomycin
	4. Identify environmental reservoirs - identify potential reservoirs of infection in
	common on-farm vectors (rodents, flies, darkling beetles) on positive farms
	using PCR. 5. Cecal worm prevalence in BC commercial turkey farms - compare the
	prevalence of cecal worm (Heterakis sp) infection in positive and unaffected
	flocks
	6. Blackhead producer seminar
	The project will involve private vets as well as vets from the provincial vet lab. Virtual
	presentations will be given by well respected North American blackhead researchers.
Request	\$12,500 in funding
Proposed budget	\$50,000
Proposed funding	The BC Turkey Marketing Board is contributing \$12,500; they've requested an
source	additional \$25,000 from CAP (matching industry's contribution)
Decision	Project funded
Additional	Approval received via e-mails on December 30, 2020
comments	

Project Number: 2020-06