

BLACK EARTH

ENHANCING...NATURALLY



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APPLES - ZINC

TITLE – Field fertigation with BlackEarth chelated zinc on high density apple

RESEARCH COOPERATOR – G. Neilson, B. Rabie, E. Hogue, D. Neilson, P. Bowen, Agriculture Canada, Summerland, B.C.

TRIAL OBJECTIVE – To determine the availability of fertigated **BLACK EARTH** chelated zinc as a source of fertigated zinc.

EXPERIMENTAL DESIGN –

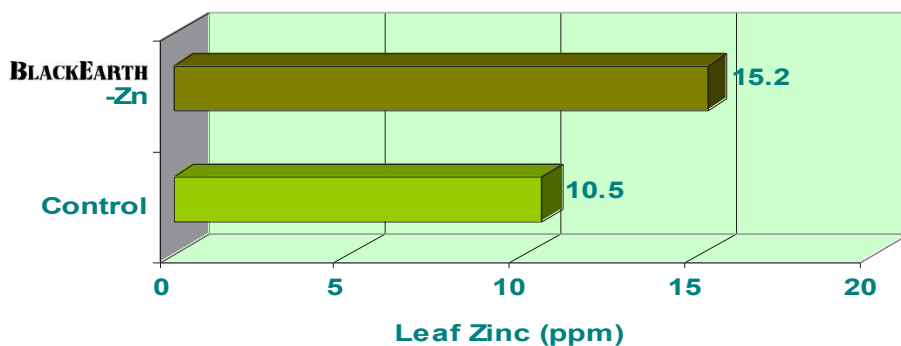
Crop	Apple trees
Location	Ag Canada Summerland Research Station
Experimental Design	4 replicate five tree plots in an outside row of high density Gala on M.9 field plantings
Treatment details	BLACK EARTH chelated zinc was applied with irrigated water daily (1 ml/liter of water. The control had no applied zinc. A total of 245 l/tree of water was applied during the experiment. Zinc fertigation occurred from Jun 4 – July 28, 2001
Leaf sampling	August 9, 2001

TREATMENTS –

	Rate (g/tree)
Check – no zinc	0
BLACK EARTH Chelated-Zinc	437

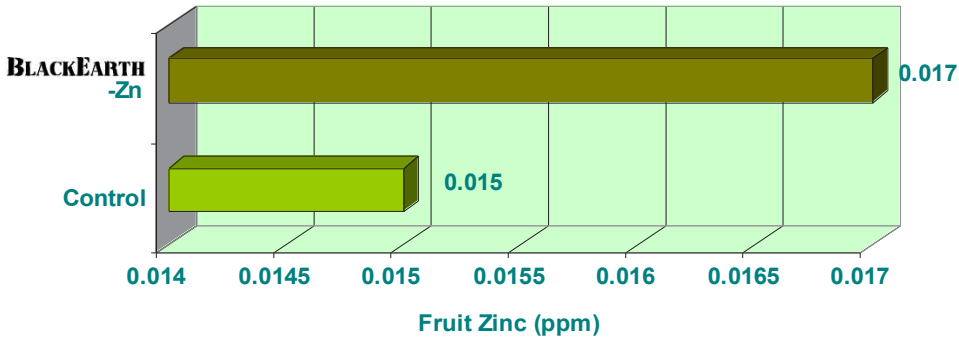
RESULTS AND DISCUSSIONS –

Apple Leaf Zinc Content

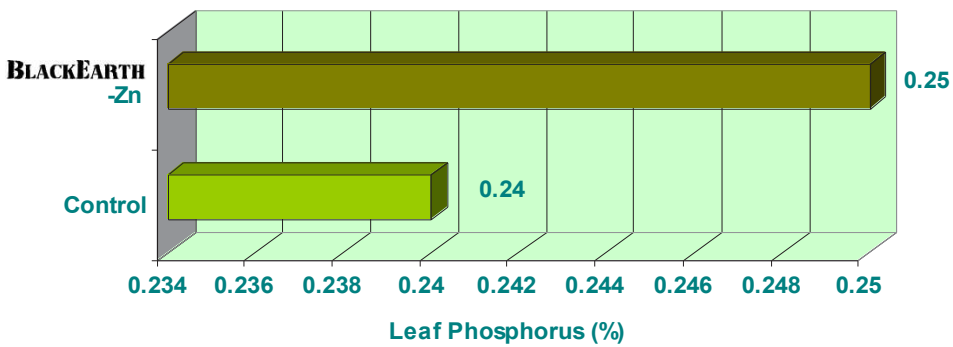


RESULTS AND DISCUSSIONS ...continued

Apple Fruit Zinc Content



Apple Leaf Phosphorus



Leaf and fruit zinc concentrations, as well as leaf phosphorous concentration, were higher when treated with BlackEarth chelated zinc.

