

BLACK EARTH

ENHANCING...NATURALLY



13044 Yellowhead Trail
Edmonton, Alberta,
Canada T5L 3C1
Phone: (780) 453 - 2100
Fax: (780) 421 - 4835

e-mail:
sales@blackearth.com
Web Site:
www.blackearth.com

CANOLA – BIOMASS & P ACCUMULATION

TITLE – Manitoba Canola Trial - 2002

RESEARCH COOPERATOR – S. B. Dilk - University of Manitoba

TRIAL PROTOCOL – To determine the effect of humic (**BLACK EARTH** Liquid 6%) in improving biomass & phosphorous uptake of Argentine canola *Brassica napus* (cv. 45A51) on black chernozem and dark grey luvisol types of soil.

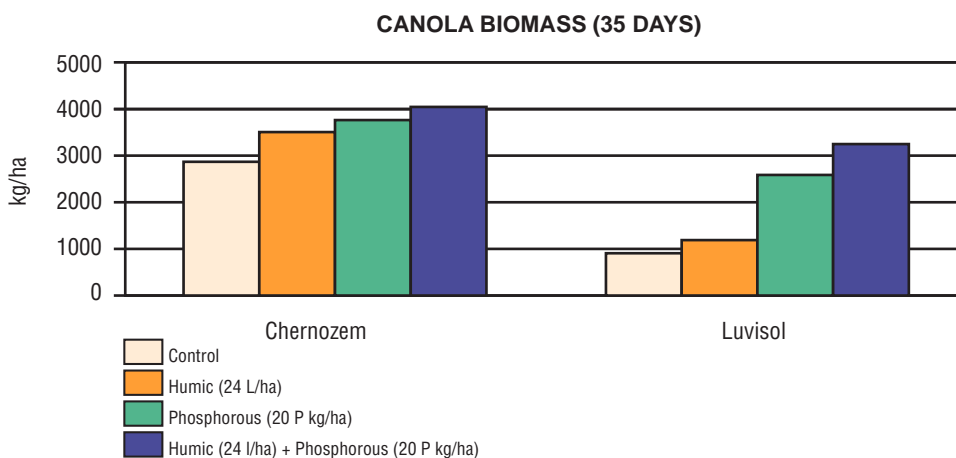
EXPERIMENTAL DESIGN –

CHARACTERISTICS	CHERNOZEM	LUVISOL
pH	7.4	6.8
Texture	Silt loam	Sandy loam
Organic Matter (%)	4.5	2.6
Elec. Cond (ds/m2)	1.2	1.4
NO3 (kg/ha)	140	10
P (kg/ha)	20	8
K (kg/ha)	260	90
SO4 (kg/ha)	88	38

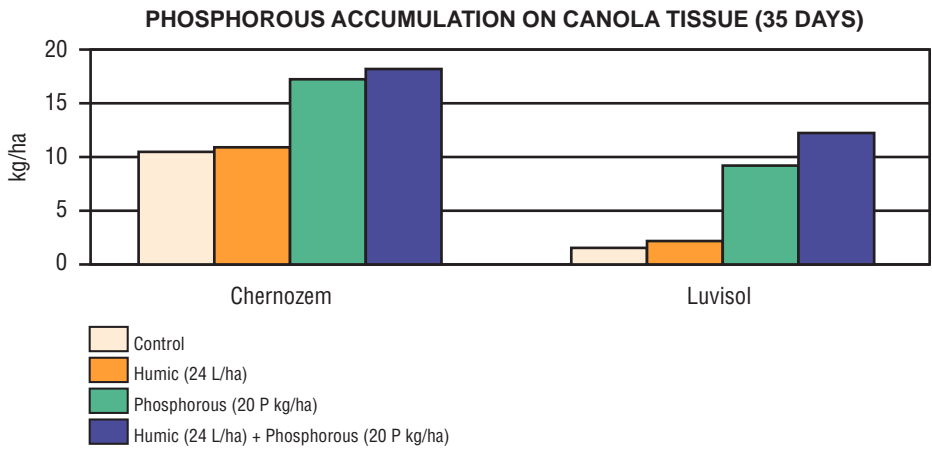
TREATMENTS –

P fertilizer (10-34-0) was placed as a side-band beside and below the seed at time of seeding. A mixture of **BLACK EARTH** Liquid 6%, P fertilizer, and water was applied to the soil. Ninety kg/ha N (urea), 93 kg/ha K (KCl), and 60 kg/ha S (ammonium sulphate) were applied to the luvisol soil due to lack of nutrients. In this summary, P rates of 0 and 20 kg/ha, and humic rates of 0 and 24 L/ha were included. Biomass and P accumulation results after 35 days of emergence were presented below.

RESULTS AND DISCUSSIONS –



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BLACK EARTH Liquid 6% was found improving canola biomass and P accumulation after 35 days of emergence. The best results were found when both phosphorous and humic were applied in the case of chernozem soil.

