2000 POTATO TRIAL, PRINCE EDWARD ISLAND, CANADA

RESEARCH COOPERATORS
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TRIAL PROTOCOL
To determine the effect of Black Earth Liquid (9000S) on the increasing rates of phosphorus and the yield of potatoes.

EXPERIMENTAL – DESIGN
Crop: Potatoes
Variety: Russet Burbank
Location: Charlottetown, PEI
Crop Emergence: June 26, 2000
Nutrient Application Rate: N – 180 kg N/ha, K – 200 kg K, Mg – 10 kg Mg/ha
Fertilizer Placement: Eight (8) cm to the side and five (5) cm below seed piece
Crop Kill Date: October 4, 2000
Harvest Date: October 23, 2000

SPRING SOIL PARAMETERS – SOIL TEST VALUES (PPM)
P K Ca Mg S Na pH OM (%)
246.0 112.8 690.7 104.6 32.5 35.8 5.88 3.22
medium+ medium low medium high+ hight+

EXPERIMENTAL – TREATMENTS
<table>
<thead>
<tr>
<th>Black Earth</th>
<th>Black Earth Rate</th>
<th>P2O5 Rate (kg/ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>5 L/acre</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100</td>
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<td></td>
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<td>200</td>
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<tr>
<td>None</td>
<td>–</td>
<td>0</td>
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<tr>
<td></td>
<td>–</td>
<td>100</td>
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<tr>
<td></td>
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<td>200</td>
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</tbody>
</table>

Treatments were 3 x 3 factorial combinations of P rates and humic material with six (6) replications. Black Earth Liquid was dribbled beside the seed piece in the open row and then covered.
RESULTS

Black Earth Liquid increased the number of tubers per plant. Black Earth Liquid also increased total yield when applied in combination with phosphorus.

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Number of Tubers Per Plant

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Total Yield

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