Electron seed treatment – E-VITA
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14.000 ha multiplication area in 23 agricultural cultures
grain, legumes, oil seeds, grass and clover, cover crops

3 places of production
Güstrow, Angermünde, Jüterbog

Output
2015 50.000 ton

E-VITA-Output
2015 12.000 ton

Market share Germany
2015 10,0 %
History

- **2010**  
  Beginning for Nordkorn to work with electron seed treatment.
History
History

- **2010** Beginning for Nordkorn to work with electron seed treatment.

- **2014/2015** Installation of a stationary equipment in Guestrow.
Stationary equipment
Stationary equipment
Development of the market
Long term trials

1. Böhnshausen, Nordsaat
2. Hadmersleben, SW Seed
3. Biendorf, IG Pflanzenzucht
4. Silstedt, RAGT
Long term trials

(13 Jahre, 4 Orte x 4 WW-Sorten pro Jahr)

GD = 1,3 dt

Yield (dezitons/ha)

Year


unbehandelt chem. Beizung E-VITA

+ 1,3 % = 1,08 dt
**E-VITA in corn**

Is the electron treatment an alternative solution to thiram?

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Dry matter yield (rel.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control</td>
<td>100</td>
</tr>
<tr>
<td>TMTD</td>
<td>105</td>
</tr>
<tr>
<td>E-VITA</td>
<td>106</td>
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</tbody>
</table>
Wheat following wheat stress test

Yield in %

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Yield</th>
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</thead>
<tbody>
<tr>
<td>Kontrolle</td>
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<tr>
<td>Landor CT</td>
<td>98</td>
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<tr>
<td>Landor CT + Latitude</td>
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<tr>
<td>Arena C</td>
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<tr>
<td>Celest</td>
<td>102</td>
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<tr>
<td>Orius</td>
<td>102</td>
</tr>
<tr>
<td>E-VITA</td>
<td>104</td>
</tr>
</tbody>
</table>
Summary of E-VITA

- No health dangers for the users!
- Physical treatment!
- Very effective against seedborne pathogens!
- No obligations with transport, use or environment!
- No damage of beneficial organisms!
- No chemical remains in soil!
- No resistances by pathogens!
- Faster germination!
- Organic farming!
- Better flow through the sowing machine!
- Use seed leftovers as feedstuff!
Future projects !?

- Effects in legumes like pea (*Ascochyta fabae*) and lupine!
- Effects in seeds of grass and clover!
- Effects in soil, especially soil biota?
- Direct measuring of efficiency factor by electron treatment!