

3. Relationship between yield and key properties

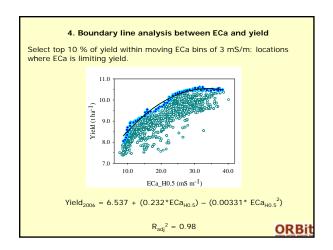
Stepwise multiple regression analysis:

$$\mathsf{Yield}_{2006} = -0.324 + (0.175 ^{\star}\mathsf{ECa}_{\mathsf{H}0.5}) + (1.009 ^{\star}\mathsf{DEM}) - (0.00217 ^{\star} \; \mathsf{ECa}_{\mathsf{H}0.5}^{\phantom{\mathsf{DEM}}2})$$

$$R_{adj}^2 = 0.88$$

pH did not influence wheat yield of 2006 significantly; ECa was dominant.

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VIII. Conclusions

 Candidate key soil properties for management zone delineation in wind blown sediments of Northern-Europe:

ECa, elevation and topsoil pH.

- These properties allow to construct relatively stable management zones which produce clear differences in crop yield.
- ECa relates very strongly to wheat yield.

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