Sensor-guided Side-dressing Decision Making

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Abstract: this research is so awesome that you cannot reject this paper.

# Keywords:

site-specific input management, nitrogen rate, seed rate, on-farm randomized field trial, shape-constrained generalized additive modeling, economically optimal input rates

# Introduction

bluh bluh

Adrian, Norwood, and Mask (2005) examined bluh bluh.

bluh bluh (Shrader, Fuller, and Cady 1966)

bluh bluh (Shrader, Fuller, and Cady 1966; Adrian, Norwood, and Mask 2005)

bluh bluh (1966)

# Materials and Methods

The number of observations are 598 and 1376 for Zones 2 and 3, respectively.

Table 1 presents summary statistics by zone.

## Experimental Design and Data Collection

bluh bluh

## Econometric and Economic Methods

Here is the statistical model to estimate:

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# Results and Discussions

Table 1 presents the regression results.

# Conclusions

bluh bluh

# Figures

# Tables

Table 1: Summary Statistics by Zone

| Zone |  | get\_N | Mean | SD | Min | Max |
| --- | --- | --- | --- | --- | --- | --- |
| Zone 2 | Yield (kg/ha) | 598 | 12932.11 | 3994.57 | 4344.71 | 24459.46 |
|  | Nitrogen Rate (kg/ha) | 598 | 117.82 | 14.73 | 88.94 | 145.57 |
|  | Seed Rate (1000/ha) | 598 | 84.01 | 6.86 | 69.17 | 98.61 |
| Zone 3 | Yield (kg/ha) | 1376 | 13430.38 | 4132.89 | 4026.51 | 23319.59 |
|  | Nitrogen Rate (kg/ha) | 1376 | 118.20 | 14.61 | 88.84 | 143.75 |
|  | Seed Rate (1000/ha) | 1376 | 87.20 | 7.03 | 69.58 | 98.82 |

# References

Adrian, Anne Mims, Shannon H Norwood, and Paul L Mask. 2005. “Producers’ Perceptions and Attitudes Toward Precision Agriculture Technologies.” *Computers and Electronics in Agriculture* 48 (3): 256–71.

Shrader, WD, WA Fuller, and FB Cady. 1966. “Estimation of a Common Nitrogen Response Function for Corn (Zea Mays) in Different Crop Rotations 1.” *Agronomy Journal* 58 (4): 397–401.

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