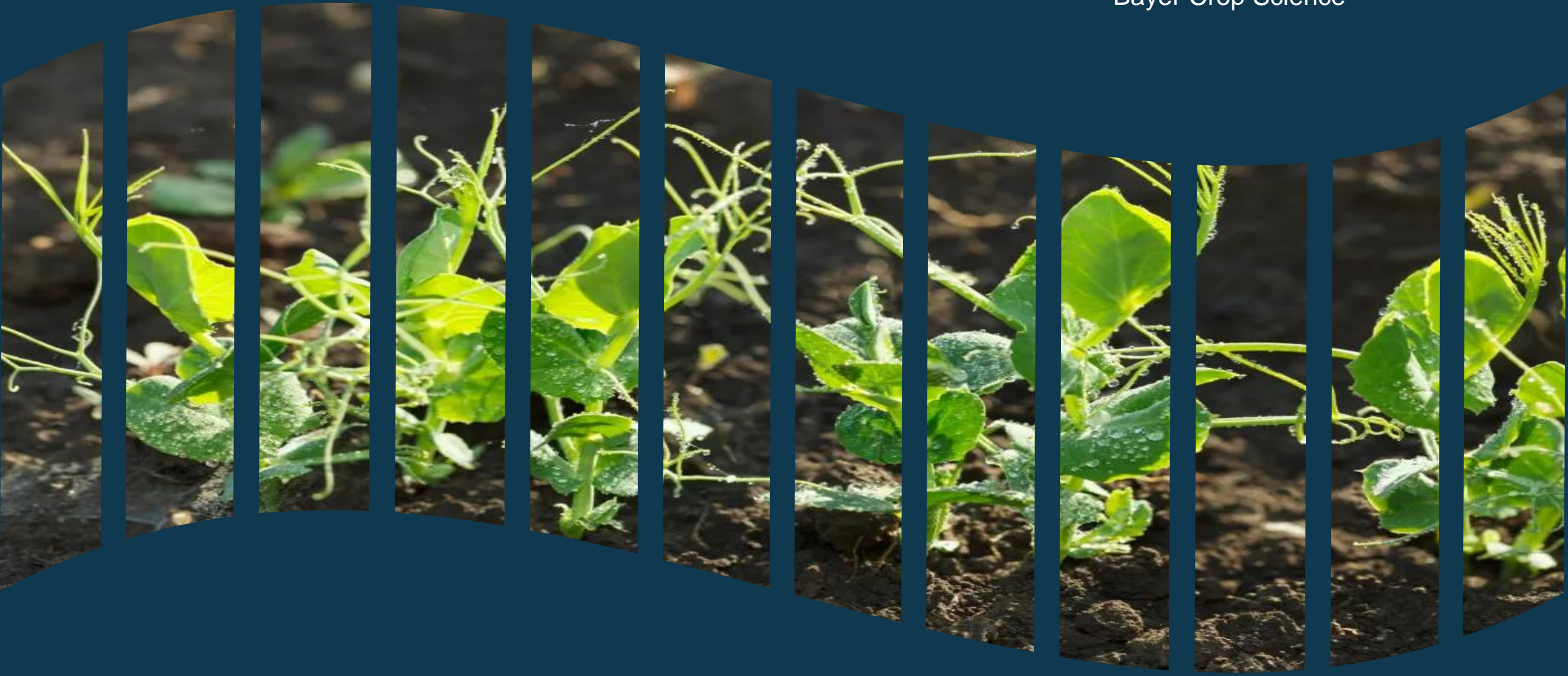




AOSA/SCST Rule Proposal – Organic Growing Media for Peas

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Introduction

- Adding organic growing media as a testing platform for *Pisum sativum*
- Using organic growing media can potentially provide faster results
 - Avoid retesting in organic growing media if decay is present in sample
 - Potentially faster evaluations
 - No towel folding and re-folding for first and final counts
 - No first count necessary in organic growing media
 - 100 seed reps without overcrowding seedlings
 - More development of seedlings at end of testing period
 - Less ergonomic risks as it is not as heavy as sand



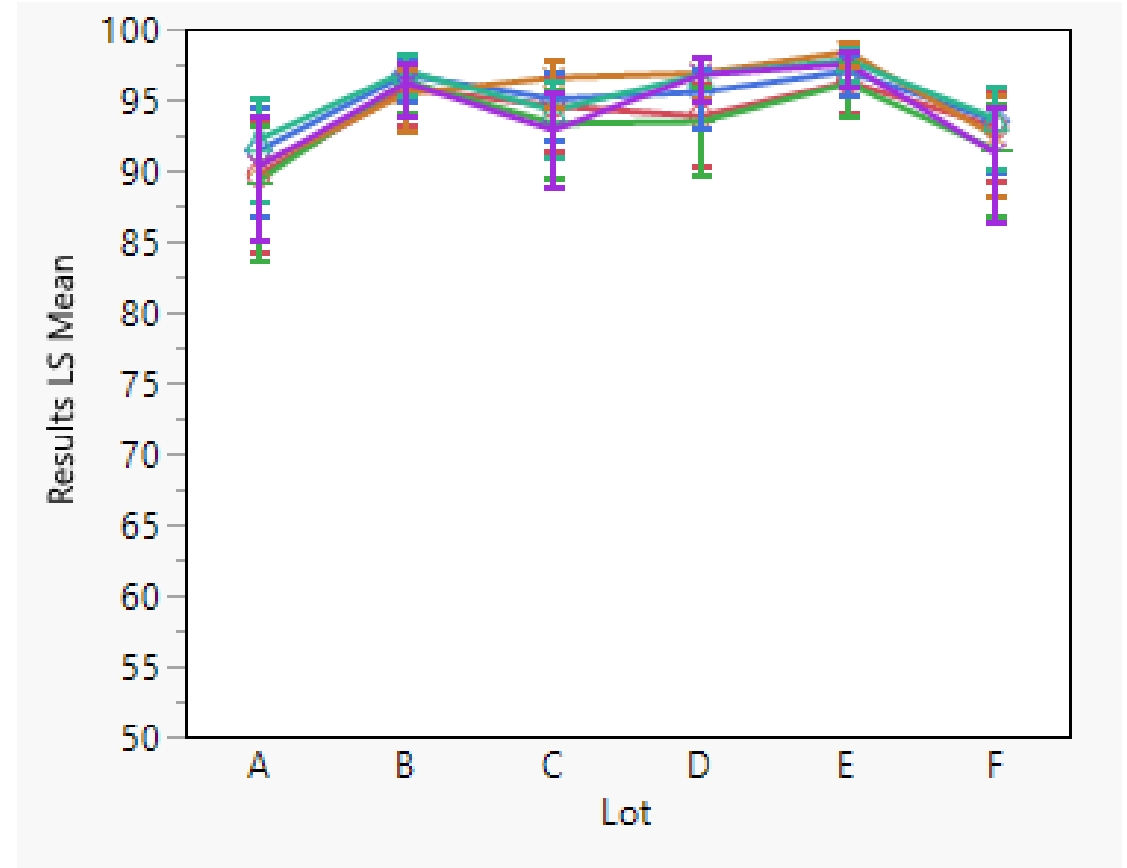
Design of Experiment

- 6 lots of Peas were used
 - 6 different varieties
 - No treatments used
 - 2 lots with quality specs between 83-92%
 - 3 lots with quality specs between 93-99%
 - 1 lot with known issues of decay
- 6 labs tested each lot on each media type
 - Each lot was given a letter as identification
 - Samples were mixed and divided to approximately 550 seeds per packet
 - 3 packets were sent for each lot to be used for each test method
- Each lot was tested in Rolled Towel, Sand, and Organic Growing Media at each lab
- Each lab was assigned a letter for anonymity during analysis



Results

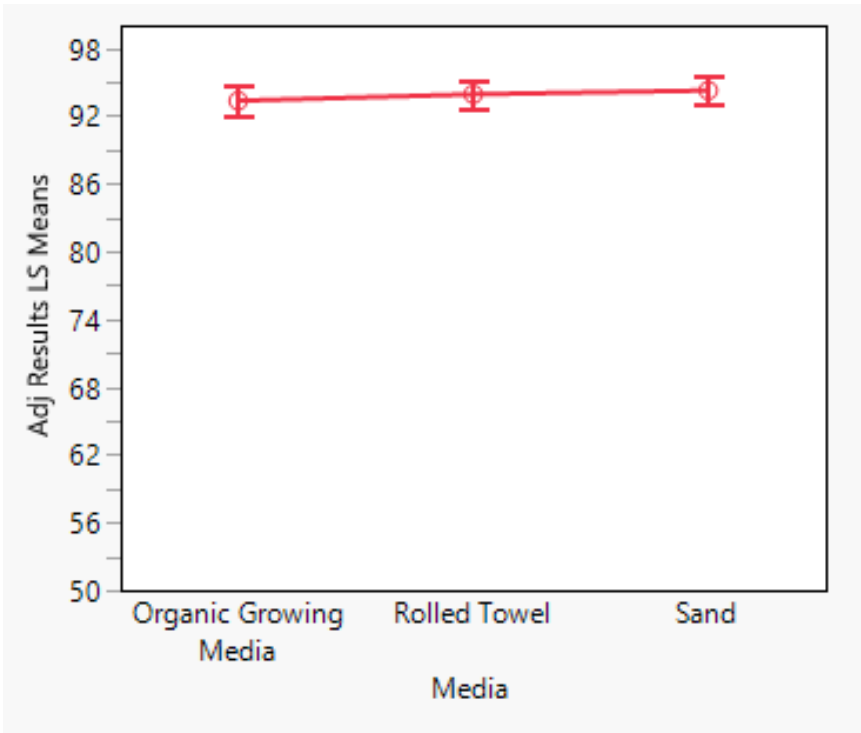
Lab	Lot	Rolled Towel	Sand	Organic Growing Media
Z	A	84	89	92
X	A	90	92	92
V	A	90	90	86
U	A	92	92	86
T	A	85	91	85
S	A	90	84	89
Z	B	95	97	97
X	B	97	97	98
V	B	97	98	86
U	B	98	97	96
T	B	96	98	95
S	B	96	92	98
Z	C	87	93	95
X	C	94	93	95
V	C	97	98	95
U	C	95	97	92
T	C	94	94	90
S	C	97	93	92
Z	D	97	96	98
X	D	97	96	98
V	D	97	100	93
U	D	92	98	95
T	D	94	95	89
S	D	94	91	95
Z	E	97	99	97
X	E	98	97	99
V	E	98	99	99
U	E	97	98	97
T	E	96	97	96
S	E	97	98	93
Z	F	89	90	91
X	F	95	90	94
V	F	92	92	91
U	F	91	94	94
T	F	90	89	92
S	F	96	90	90





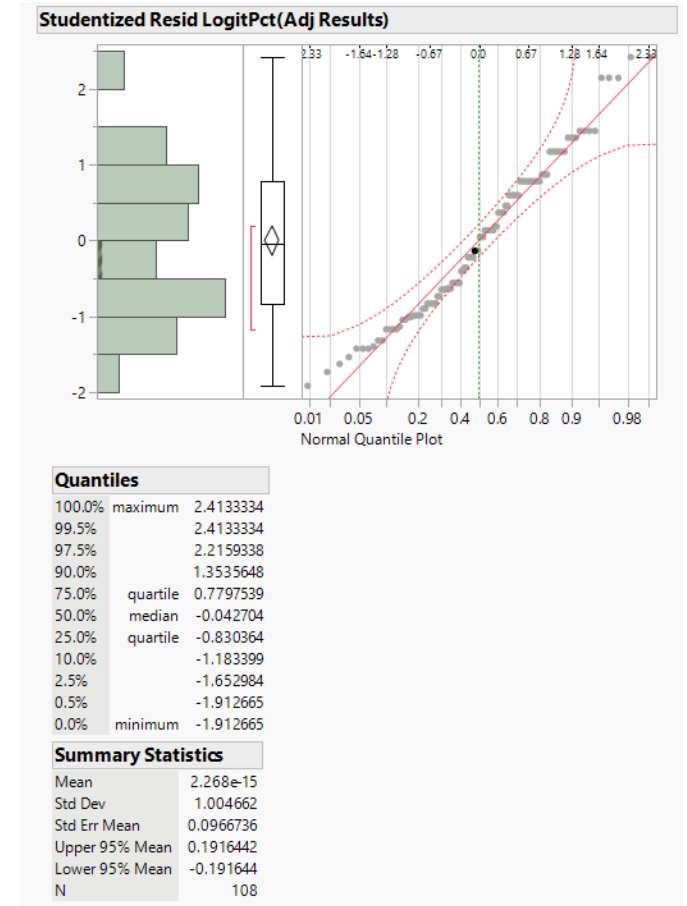
Conclusion

- No statistical difference between Primary Methods of Rolled Towel/Sand and proposed method of Organic Growing Media
- Analysis provided by Karen Richard from Statistics Committee



Level		Least Sq Mean
Sand	A	95.45
Rolled Towel	A	94.84
Organic Growing Media	A	94.51

Levels not connected by same letter are significantly different.



Acknowledgements

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Thank you, Karen Richard from the Statistics committee, for the data analysis!



Bayer Crop Science



Indiana Crop Improvement Association



Nebraska Crop Improvement



Sakata Seed America, Inc.



Seed Check Technologies, Inc.



SGS Brookings