

## 2024 Rule Proposal 4

PURPOSE OF PROPOSAL: Adding organic growing media (O) as an optional/alternative method for testing of field and garden pea (*Pisum sativum*)

PRESENT RULE:

<i>Pisum sativum</i> L. field pea and garden pea	B, T, S, TCS	20	5	8	Hard seeds: see sec. 6.2d and 6.9m(6)	
---	-----------------	----	---	---	--	--

PROPOSED RULE:

<i>Pisum sativum</i> L. field pea and garden pea	B, T, S, TCS, O	20	5	8	Hard seeds: see sec. 6.2d and 6.9m(6)	
---	--------------------	----	---	---	--	--

HARMONIZATION/IMPACT STATEMENT: The rule proposal does not harmonize with the Federal Seed Act, Canadian Methods & Procedures, or the ISTA rules.

- A. The difference will be adding organic growing media as a primary test method. When performing a retest, organic growing media is recommended as an alternative test method but having it as a primary test method will help reduce the amount of retesting needed.
- B. This proposal does not affect seed industry or State Regulatory Officials.
- C. This proposal does not impact other rules volumes.

SUPPORTING EVIDENCE:

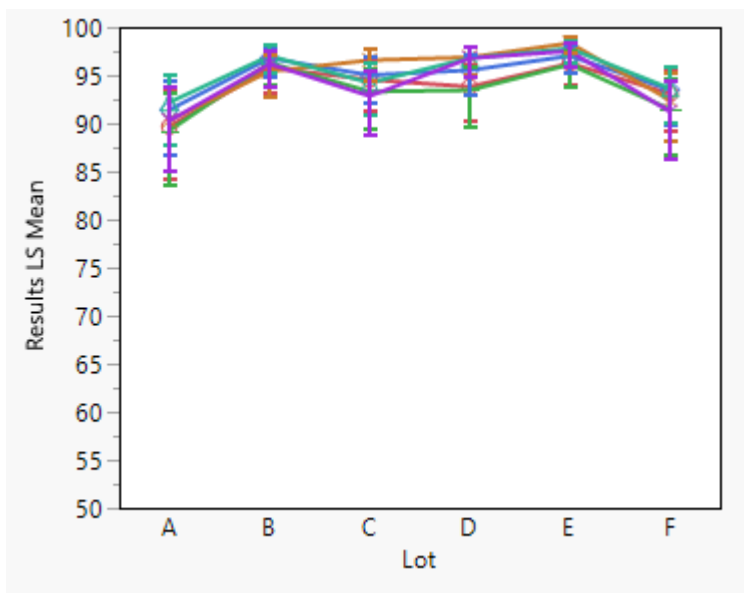
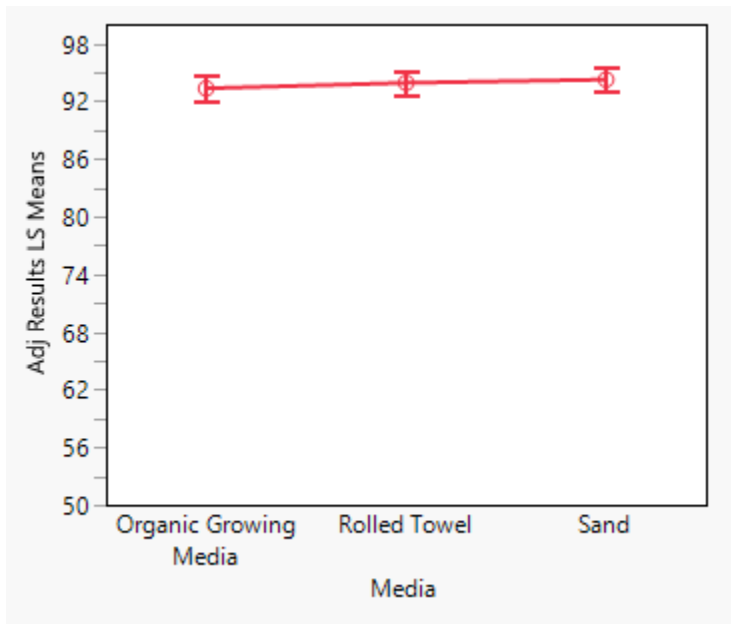
6 different labs tested 6 lots of peas of all different varieties without treatment and of varying quality (83 - 99%) on 3 different test methods towel, sand, and organic growing media. Blotter (B) was not utilized in this study. Consensus observed at the Germination Committee meeting in June 2023, public responses suggest that blotter may be a candidate for method removal. Additional data of support to follow.

Results provided are below.

Karen Richard from Statistical Committee provided the analysis of 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



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.

CONCLUSION: 6 different labs tested 6 lots of peas without treatment of varying qualities (83 - 99%) across 3 different testing platforms: rolled towel, sand, and organic growing media. The analysis of results

provided in this study demonstrate no statistical difference between the primary test methods of rolled towel and sand for peas and the proposed method of organic growing media.

ACKNOWLEDGMENTS: Much appreciation to the participating labs in this study: Bayer Crop Science, Indiana Crop Improvement Association, Nebraska Crop Improvement, Sakata Seed America, Inc., SeedCheck Technologies, Inc., SGS Brookings

SUBMITTED BY: Kaitlin Houghtby

DATE SUBMITTED: 10/13/2023