

AOSA/SCST Region 2
Virtual Soybean Seedling
Evaluation Referee
2009-2010



Background Information

- Second year of soybean virtual referee.
- Was preceded by three years of virtual corn referees.
- Participating Labs (no particular order):
 - McKenzie Seeds (Manitoba)
 - USDA (North Carolina)
 - Texas Dept. of Ag
 - New Mexico Dept. of Ag
 - Germain's Seeds (California)
 - Syngenta (Colorado)
 - Harris Seeds (New York)
 - Pioneer (Indiana, Iowa)
 - Seminis (California)
 - Agri-Quality Testing (Washington)
 - Virginia Dept. of Ag
 - Washington Dept. of Ag
 - Michigan Crop Improvement
 - Minnesota Dept. of Ag
 - BioDiagnostics (Wisconsin)
 - Kansas Crop Improvement
 - Iowa State University
 - MD Seed Analysis (California)
 - Advanta (Texas)



Background Information

- Seedlings were grown on crepe cellulose paper (Kimpak™, VersaPak™)
- Seedlings were scanned (a digital camera was not used).
- Responses from participants were divided as coming from AOSA or SCST labs. Differences according to organization weren't necessarily expected, but it was interesting to see if there were differences.
- In the corn virtual referees, participant responses were divided by experience.
- Volume Four of the AOSA Rules for Testing Seeds is up for revision. Hopefully all interested parties will contribute to the revised "Seedling Evaluation" section of the AOSA Rules.
- Past virtual referees can be found on the AOSA and SCST web sites.
- On seedlings when the responses approach 50 – 50, who decides if the seedling is normal or abnormal?



1

All	AOSA	SCST
27%	32%	22%

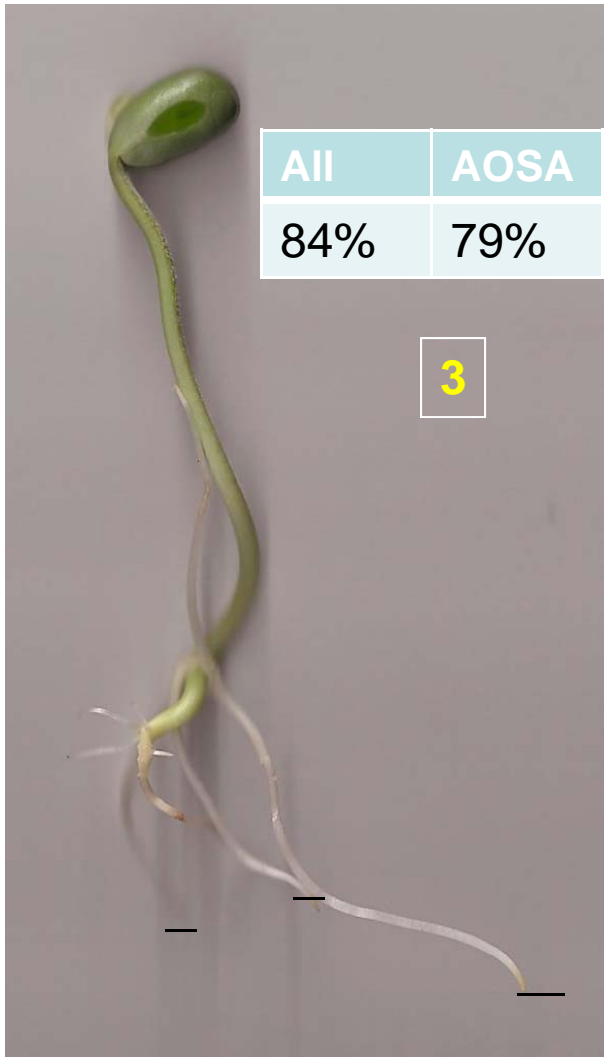
← Number calling seedling normal



2

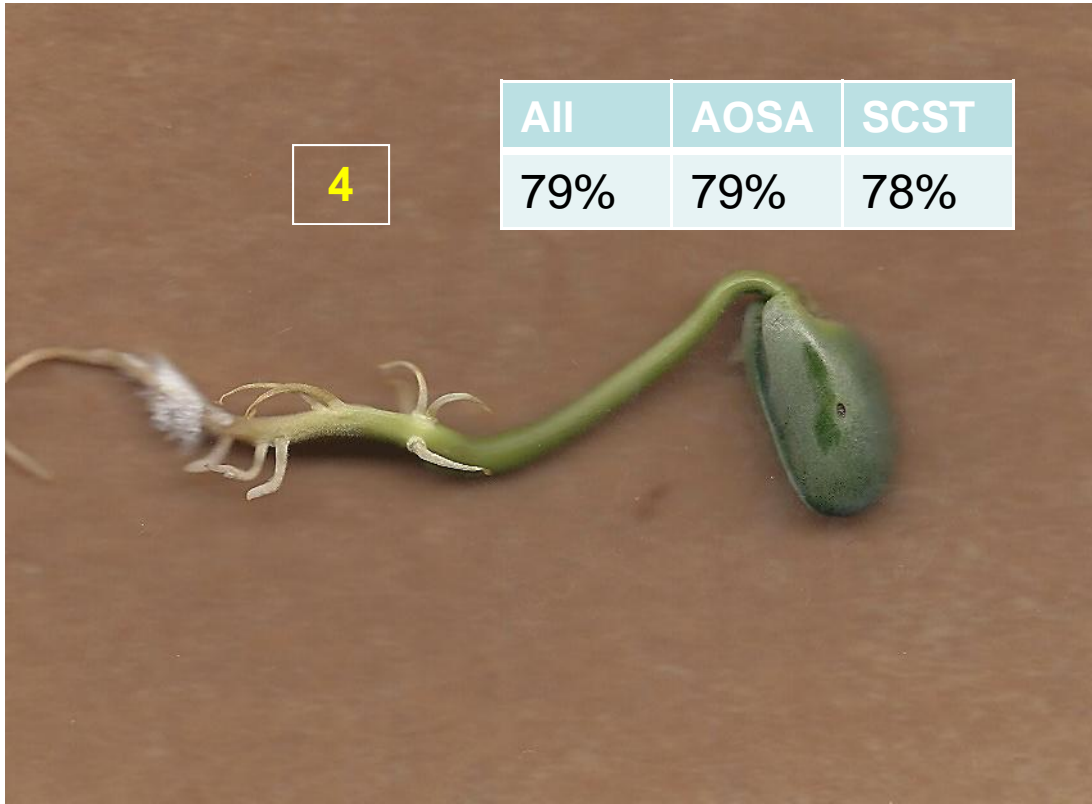
All	AOSA	SCST
19%	16%	22%





All	AOSA	SCST
84%	79%	89%

3



All	AOSA	SCST
79%	79%	78%

4



5

All	AOSA	SCST
8%	16%	0%



6

All	AOSA	SCST
68%	68%	67%



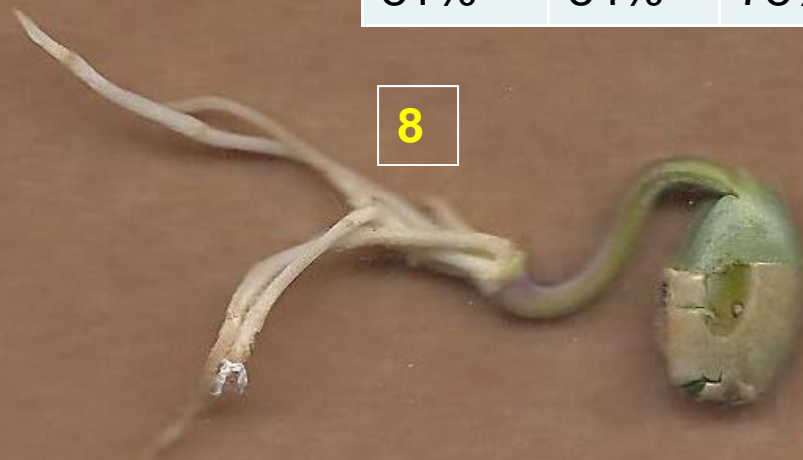
All	AOSA	SCST
24%	32%	17%

7



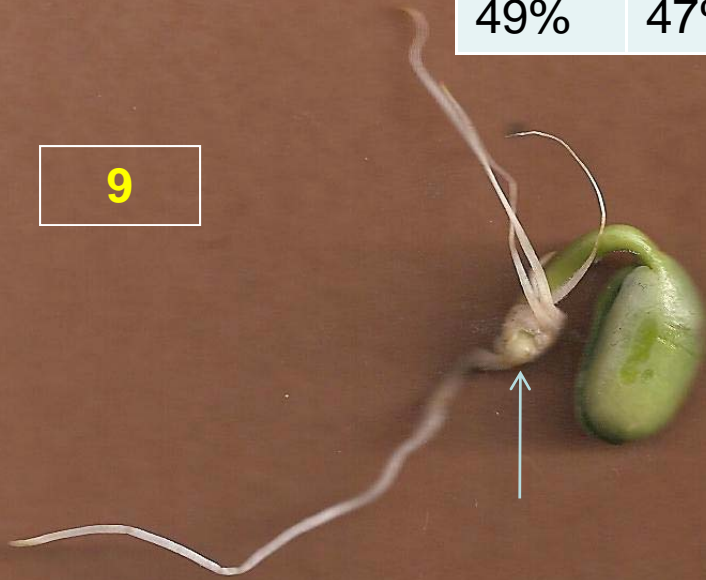
All	AOSA	SCST
81%	84%	78%

8



All	AOSA	SCST
49%	47%	50%

9



All	AOSA	SCST
60%	53%	67%

10



11

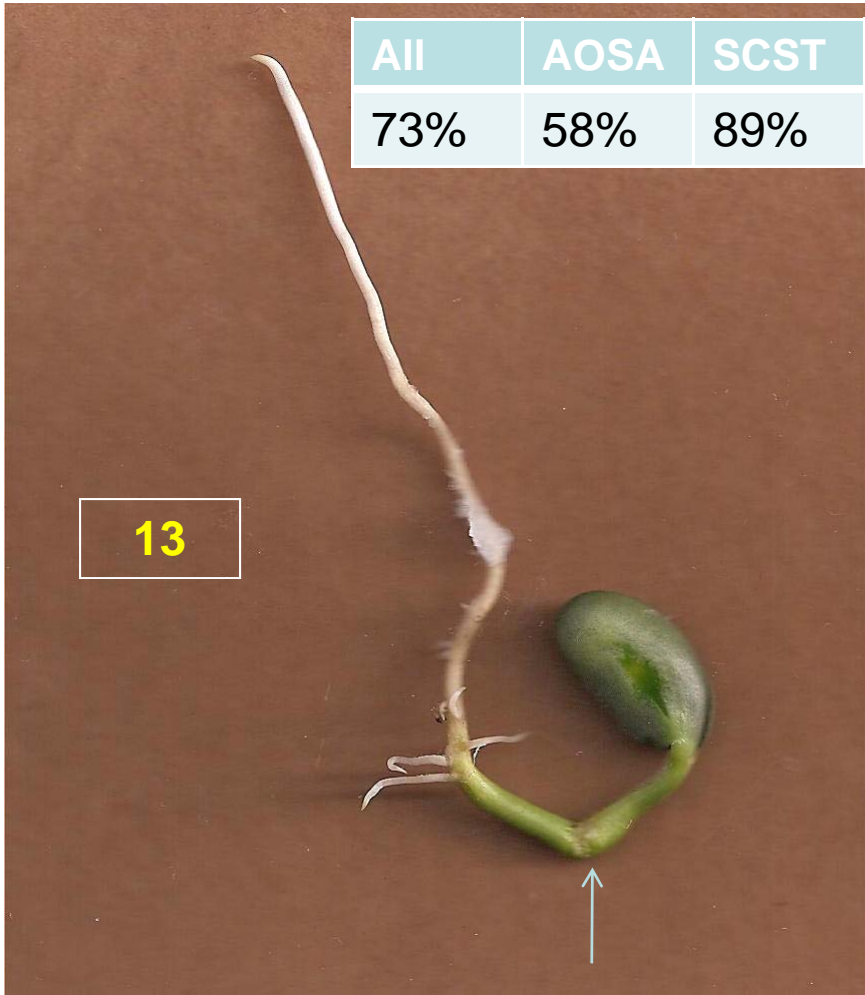
All	AOSA	SCST
100%	100%	100%



12

All	AOSA	SCST
24%	26%	22%

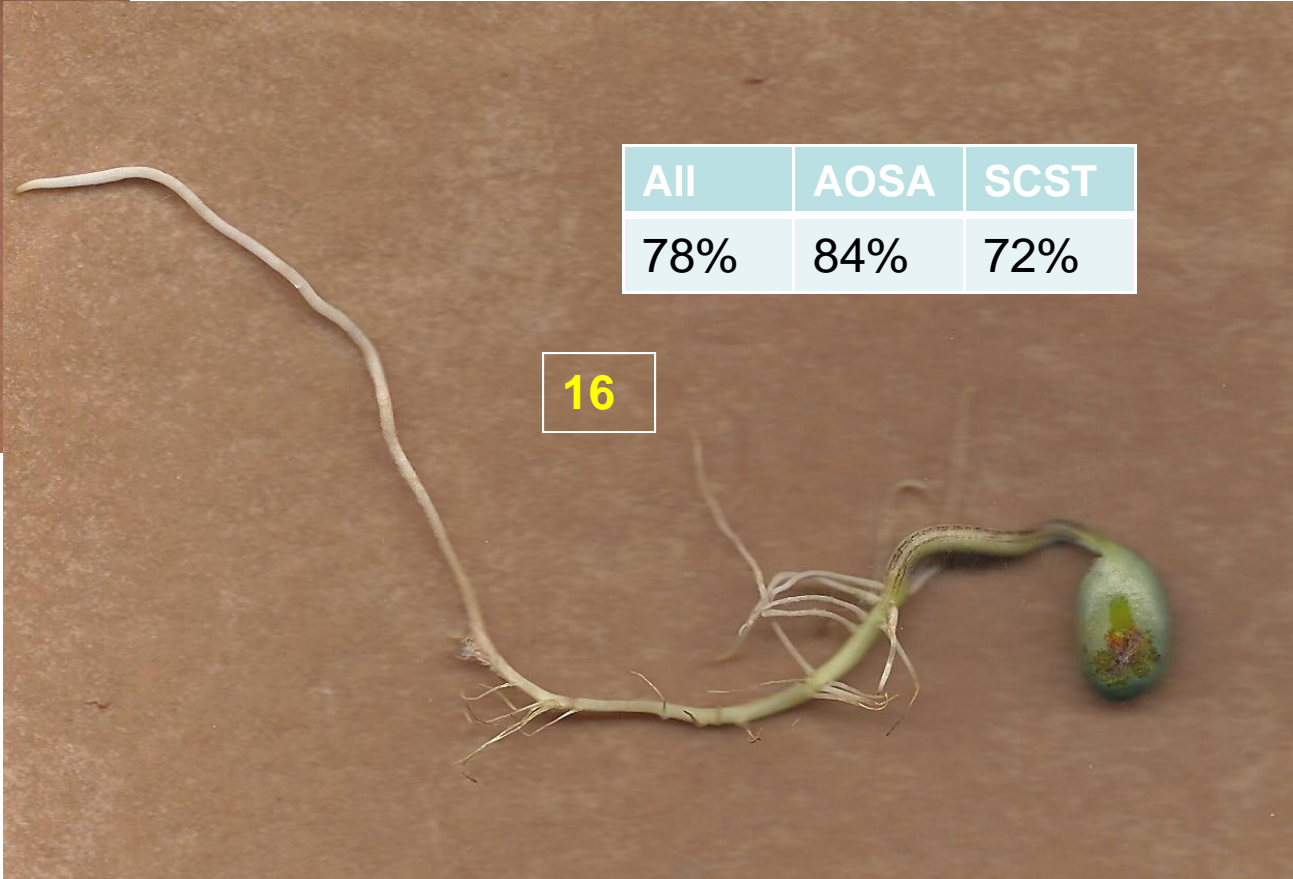






15

All	AOSA	SCST
51%	63%	39%



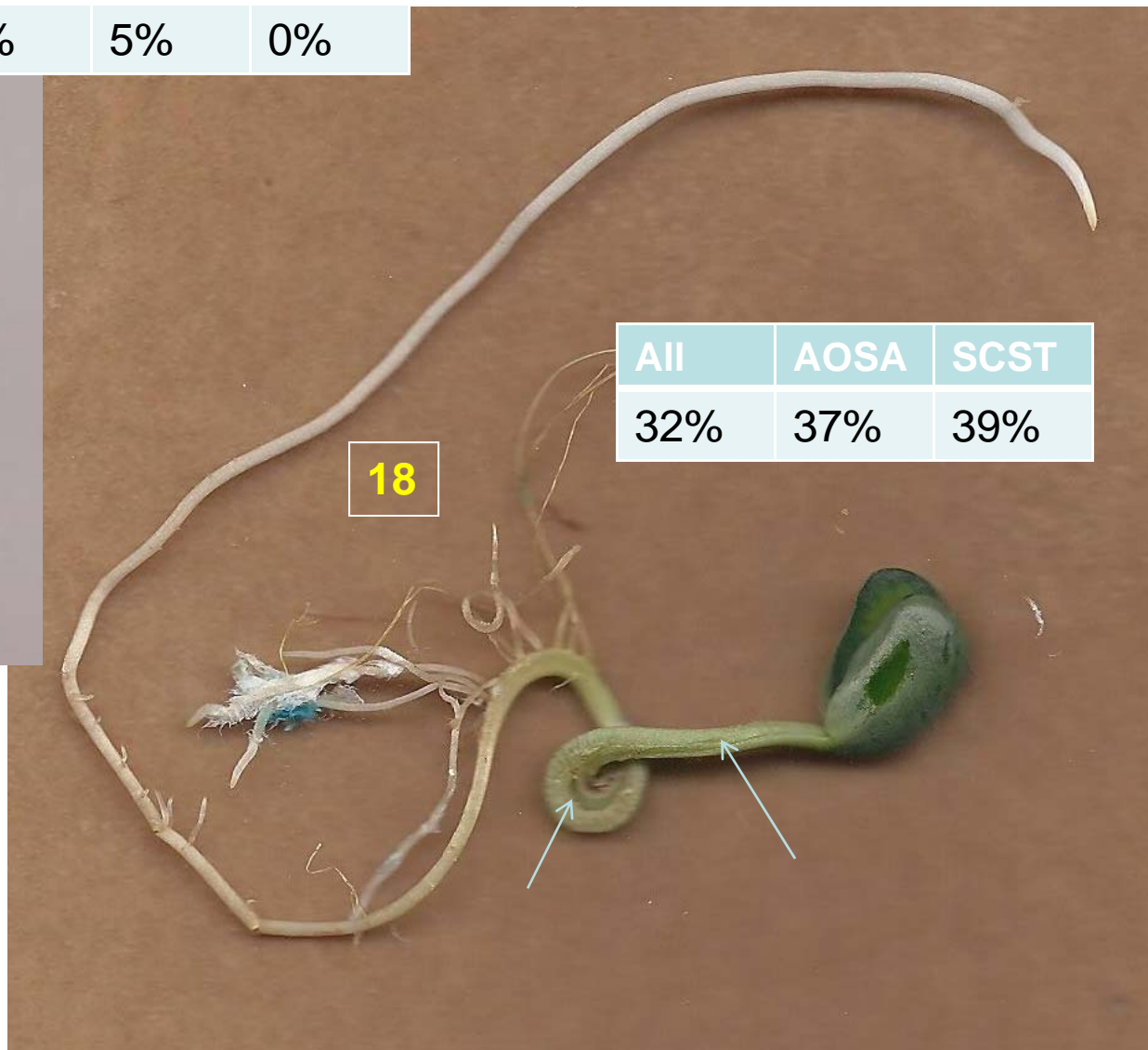
16

All	AOSA	SCST
78%	84%	72%





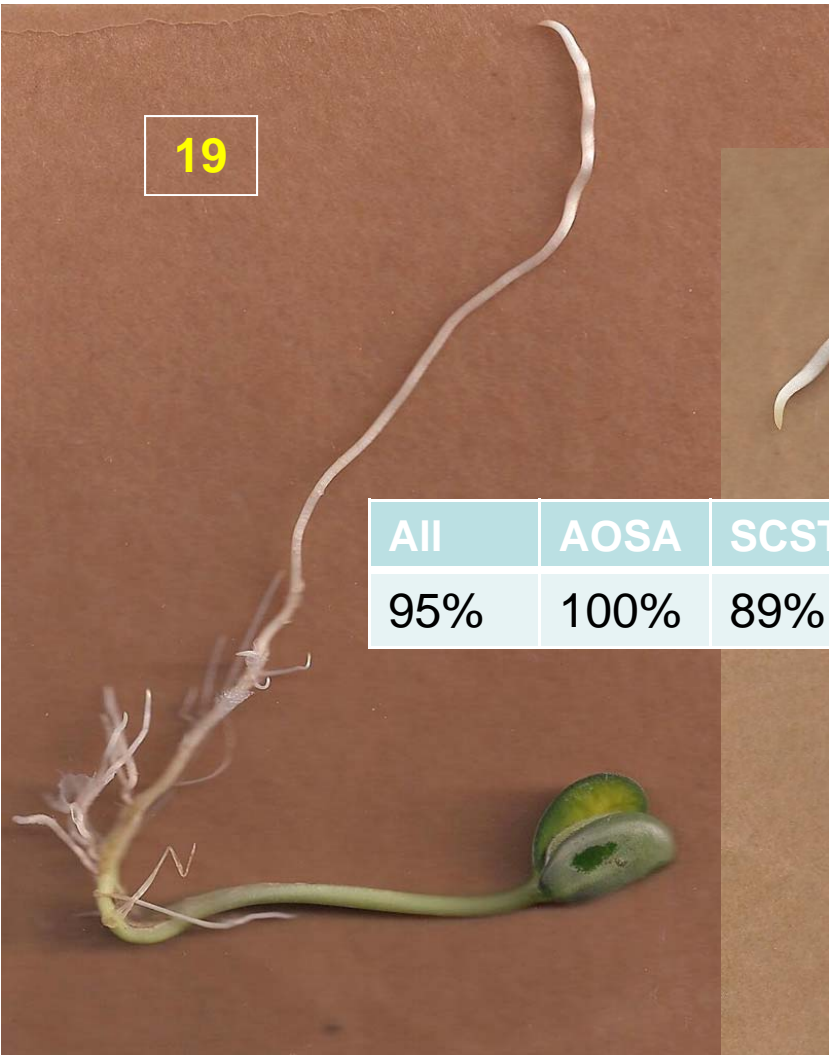
17



18

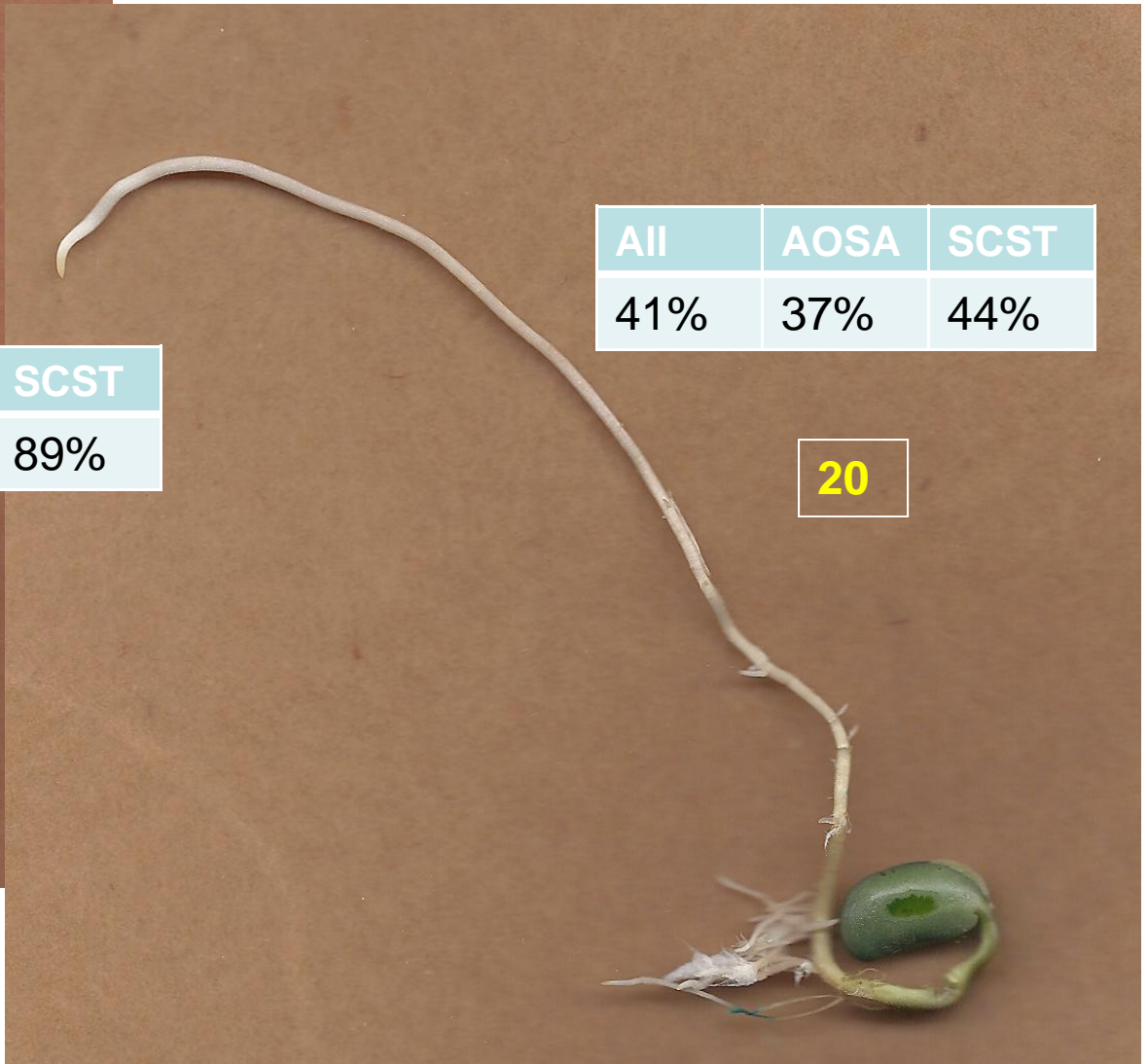


19



All	AOSA	SCST
95%	100%	89%

20



All	AOSA	SCST
41%	37%	44%



All	AOSA	SCST
27%	16%	39%

21



All	AOSA	SCST
84%	95%	72%

22



Thank you to all who participated!

Please contact Mike Stahr with questions and comments about this year's referee.

Please submit suggestions for future virtual referees and for changes to the AOSA Seedling Evaluation Handbook

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