**2019 PEANUT VARIETY AND QUALITY EVALUATION**

**ADVISORY COMMITTEE MINUTES**

**March 25, 2019**

**Tidewater Agricultural Research and Extension Center**

**Suffolk, VA 23437**

The Peanut Variety and Quality Evaluation (PVQE) Advisory Committee met from 10:30 am to 12:45pm on Monday, March 25, 2019, at the Tidewater Agricultural Research and Extension Center in Suffolk, Virginia. The members or representatives present were:

|  |  |
| --- | --- |
|  **Participant**  |  **Business or Organization:**  |
| Doug Redd | VT – TAREC |
| Melissa Douglas | VT – TAREC |
| Bob Sutter | NCPGA |
| Candice Cazenave | VT – TAREC |
| Bill Foote | NCCIA |
| Billy Gwaltney | Indika Farms and VCIA |
| Henry Edmister | NCCIA |
| Sean OKeefe | VT FSI |
| Brad Slye | VT – TAREC |
| Dan Anco | EREC Clemson |
| Dustin Auman | NCCIA  |
| Dawson Rascoe | Severn Peanuts Company |
| Cody Anderson | VT – TAREC |
| Taylor Slade | Slade Farms |
| Carolyn Daughtrey | VT – TAREC |
| Don Baker | NC Foundation Seed Producers |
| Karl Jones | VT – TAREC |
| Daryl Bowman | NC Foundation Seed Producers |
| Loren Fisher | NC State University |
| David Monks | NC State University |
| Maria Balota | VT – TAREC |
| Jerry Rogers | VCIA |
| David Jordan | NC State University |
| Tom Hardiman | VA Tech – VCIA |
| Susan Duncan | VT VAES |
| David Haak | VT |
| Jeff Dunne | NC State University |
| Andrew Oakley | NC State University |
| Mike Jackson  | JLA International |
| Billy Barrow | Bertie Cooperative Extension |
| George McGee | North Carolina Peanut Producer |
| John Crumpler | Suffolk Peanut Producer |
| Wendell Cooper | Crop Consultant |
| Hillary Mehl | VT – TAREC |
| Carson Daughtrey | Birdsong Peanuts |
| Naveen Kumar | VT – TAREC |
| Wayne Nixon | Severn Peanut Company |
| Phillip Browning | VCIA |
| Mark Simmons | Birdsong Peanut Company |
| Gail Milteer | VDACS |
| Debbie Estienne | VT – TAREC |
| Frank Bryant | VT – TAREC |
| David Langston | VT – TAREC |

**Welcome, Introductions, Approval of Minutes:**

At 10:30 a.m., Dr. Maria Balota welcomed everyone and called the meeting to order. She asked that everyone introduce themselves to the group and tell how they are affiliated with the PVQE program. After introductions, Dr. Balota turned the meeting over to Dr. David Monks from NC State University who was the chairperson.

 Dr. Monks also welcomed everyone. Minutes from the last meeting had been sent to the committee previously. Dr. Monks asked for approval of the minutes.  ***?***  gave a motion to approve the minutes as written and it was seconded. The motion carried to approve the minutes as written.

**NCSU and VA Tech Administration Comments:**

 Dr. Susan Duncan began with thanking TAREC for hosting the meeting again this year. One important event held was the Ag Natural Resources Summit in April held in Richmond. This event was well attended the group help to initiate forward momentum within the Agricultural business relations to Technology advancements. The launch of SmartFarm Innovation Network occurred this past year. This network is designed to connect Virginia Tech’s interdisciplinary researchers and Virginia Cooperative Extension specialists to develop and deploy innovative technologies to increase overall efficiency. The School of Plant and Environmental Sciences was fully operational in July 2018 this school was a merger between three departments Crop and Soil Environmental Sciences; Horticulture; and Plant Pathology, Physiology, and Weed Science. The Virginia Tech Innovation Campus will be part of National Landing, a new neighborhood crafted specifically for the Amazon HQ2 project. In February, Vice Presidents of Administration participated in a 4 day tour across Virginia, visiting each AREC. Concerns were expressed for the updates to buildings focusing on technologies. The group expressed its appreciation for each center being the front face of Virginia Tech within the community. Dr. Duncan told the group she appreciated the efforts of those present who help with the funding of these endeavors.

 Dr. David Langston mentioned the Extension offices will continue to push for hire of those with technology background for precision agricultural faculty positions. There will be a round of Smart Farm Cluster hire and an opening for Precision Agricultural economist. Dr. David Monks mentioned the modernization of the AREC will occur with 3 stations being a model to follow by. The groundbreaking of the new plant science building will be on September 6, 2019 followed by Ag Day Football game on Sept 7, 2019. With the retirement of Tom Belton there will be a nationwide search to fill his position as Deputy Director of Extension NCCES and Agriculture and Natural Resources.

**PVQE Update:**

 Dr. Maria Balota gave the PVQE update. The new multistate NIFA has been approved to include the following aspects: Drought Tolerance, Rain Exclusion Shelter, Elite Line of PVQE and Flavor Analysis. The 2018 PVQE data results material has been published and provided in a PDF version online. Dr. Balota gave the summary of the PVQE data in 2018, which was provided in a five-table handout. The first group listed are the current cultivars, the yellow highlighted area are the University of Florida tests and the gray highlighted area are the breeding lines from NC State. The data is a combination of testing in Virginia, North Carolina, South Carolina and Florida. Table 1 shows the percent of jumbo and fancy pods along with their brightness. Table 2 shows the performance of genotypes for all test locations. Table 3 shows the blanchability of ELK and MED kernels from Suffolk, VA and Martin Co, NC. Table 4 shows the content of fatty acids by type, including the oleic values, which continues to be a “hot topic” for the industry. The oleic value is considered high when it is 74 and above. The tables on the last page of the report show the 2018 Budget and 2019 Proposed Budget. Dr. Balota said factors such as soil moisture and drought tolerance contributed to how plants respond to growth. Bob Sutter asked how flavor analysis covered within the budget or are additional funding needed to cover this analysis. This question lead to open discussion regarding the importance of flavor analysis. Additional discussion was tabled for later in the meeting.

**PVQE Program in South Carolina Update:**

 Dr. Dan Anco from Clemson University in South Carolina let the group know there were no new updates for the PQVE Program in South Carolina.

**Dr. Jeff Dunne:**

**Lines included in the 2018 PVQE testing**

Dr. Jeff Dunne supplied the group with Documentation for North Carolina State University Lines Entered in the 2019 Peanut Variety and Quality Evaluation Program. Page 1 is a summary of the lines entered, parentage, and explanation of the tables following. There are 18 total lines, three of which are new. Table 1 shows the 18 lines and the parentage and pedigree information. Table 2 shows the pod and seed characteristics for the NCSU lines and cultivars. Table 3 shows blanching characteristics. Table 4 shows the fatty acid characteristics. Table 5 shows pod characteristics in NCSU trials for all lines entered in the 2019 program, including the new lines. Table 6 shows the disease reactions to leaf spot, Sclerotinia blight, and tomato spotted wilt (TSW) on all lines. Dr. Dunne stated that it’s important to continue with pair comparison of smaller seeded varieties with larger seeded varieties.

**Updates on the breeding program**

1st year of marker assisted selection will begin under the leadership of Dr. Ryan Peanut Geneticist. To allow for bulk selection at earlier stages. Bailey II will be used as the internal reference. This process will allow for prediction of end product goals to ensure what is being breed. This is very import to consumers, on a Sensory Analysis level. Dr. Duncan suggested compiling database from previous years to be used for future resources. Budgeting for flavor analysis arose again within the discussion. It was stated that the funds received for Virginia Crop Improvement Association (VCIA) would remained the same with or without the graduate student. Suggesting funds could be used for Flavor Analysis. Dr. Duncan suggest the committee prepare a budget to complete flavor analysis to include: number of samples, cost of analysis, supplies and maintenance.

P**roposal for release of 08x09-3-14-1 and discussions: Dr. Maria Balota**

Dr. Balota presented the group with a 17 slide PowerPoint entitled “08x09-3-14-2” A high oleic Virginia Type. Since Virginia has lost ability develop peanut lines, the state now works with the University of Florida to jointly develop these lines. The owner of this line will be University of Florida with 50-50 royalties shared between Virginia Tech and University of Florida. Dr. Balota stated 08x09-3-14-2 was an overall good performing peanut including high yield, grade (TSMK), early maturity, high oleic, seed size and disease resistance. Here on out the 08x09-3-14-2 will now be known as Walton in honor of Dr. Balota’s predecessor Dr. Walton Mozingo. The cross of 08x09-3-14-1 was made in 2008 with one generation per year. 08x09-3-14-1 yields in early versus later digging saw no major differences when compared to other Virginia types losing yield in early digging. When compared to other cultivars 08x09-3-14-1 has a high fatty acid content. Drought and well-watered conditions did not affect the yield of 08x09-314-1. 08x09-3-14-1 was similar to Bailey for thrips damages and showed resistance to Late Leaf Spots (LLS) and White Mold (WM). 08x09-3-14-1 similar to Bailey II and better than Bailey and

Wynne for pod integrity. Dr. Balota again stated the advantages of 08x09-3-14-1 including excellent pod yield and grade and also high oleic oil chemistry which was consistent across all environments.

**Discussion Topics:**

**Industry needs**

Pod Integrity is still a serious issue with exporting peanuts. Dr. Balota reference back to the PowerPoint slide that compared 08x09-3-14-1, Bailey II, Wynne and Bailey pod integrities. It was requested that Dr. Balota perform testing for the pod integrity of Emery and get the results back to the group once completed.

**Date for the next PVQE meeting**

The next meeting will be Wednesday, March 30, 2019. Dr. David Monks thank the attendees for a great discussion. Dr. Balota also thanked the group for attending and the discussions that followed each top. The meeting was officially adjourned by Dr. David Monks. At this time, lunch was served.