2014 - Annual Meeting of Regional Project NE1231
February 03 and 04, 2014
Virginia Beach, Virginia

Location: Hampton Inn Oceanfront South, 1011 Atlantic Ave., Virginia Beach, VA 23451

AGENDA

February, 03 – 1PM
1. Call to order, additions and approval of agenda
Lincoln welcomed and called us to order at 1:30 PM

2. Introductions – Brief introductions – Sudeep Mathews (UMD), Lincoln Zotarelli (UF),
Mike Peck and Xinshun Xu (PSU), Richard Veilleux (VATech), Matt Kleinhenz (OSU), Craig
Yencho & Mark Clough (NCSU), Chris Hopkins (Black Gold. Regional Manager, East Coast),
Inclement weather in the north limited travel for Greg Porter (UM), Don Halseth and
Walter DeJong (Cornell).

3. Appointment of Committees
   Site selection – Sudeep M. - Next year with Potato EXPO Jan 7-9, 2015
   Resolutions – Matt Kleinhenz
   Nominations – Mark Clough

4. Local Arrangements –
   Registration - $40/participant
   Dinner Plans for tonight – Watermans, meet in lobby.

   Kirby Stafford - no longer our advisor for group.
   Ruby Mize to select a new advisor. Good reviews from Kirby. Craig Yencho – Asked to have
   an advisor selected from one of the participating universities? Is this possible, might be
   beneficial.

   Dialed in to AMT to visit via cell phone. NIFA – no travel funding so no travel to attend
   meetings like this. Main points – athro@nifa.gov
   Potato breeding special grants – Renewed for 2014, $1,350,000 RFA to be announced soon.
   Reviewers needed.
   Impact statements and funding sources – very important
   • Plant Breeding is very high profile in Washington. Possibly more than at any
     time – due to good impact statements, and overview of projects.
   • NIFA - Variety develop is good measurable outcome, but need to convey that
     plant breeding takes a long time – how do we educate legislators about this
     process? What are relevant attributes? Significant indicators of
     progress/impact? Novelty, scientific excellence,
7. Eastern Region USDA-NIFA Potato Special Grant project – G. Porter

- Greg’s report is attached and below –
- Greg Porter, University of Maine, USDA-NIFA Special Grant update
  - We received funding again for 2013-2014 (grant period 9/1/13 to 8/31/14) despite all of the difficulties with the federal budget. The subcontracts should all be in place at this time. Due to the timing of the receipt of the grant and funds, I’ll be requesting a 12-month, no-cost extension of the grant (as usual) to August 31, 2015. Our previous grant was extended (Sept 1, 2012 to August 31, 2014) and most funds have been expended. Each participating institution needs to work on spending funds in a timely manner and in the budget lines of the original request. Several states have funds remaining in the 2012-2014 grant. These funds need to be spent on project expenses before the termination date as the 2012-2014 grant cannot be extended again.
  - Many thanks to everyone for getting me the material needed to submit the grant and all associated changes requested by USDA-NIFA. The process is a long, complicated one and when changes are required, we are often given only a few days to submit the revised paperwork. This would be relatively simple for a single institution grant, but with eight participating states it is very difficult to meet the required deadlines. Thankfully, all Co-PI’s could be contacted easily this past summer and were able to respond quickly to the requests.
  - Reporting practices need to be improved. A progress report is due 12-mo into each grant and a final report is due at the end of each two-year cycle. Each subcontracting state needs to submit these reports to the University of Maine (me) in a timely manner. Several states have been good at meeting this grant obligation (NY, NC, PA), while the other states need to be better at it. The report doesn’t have to be long! It needs to be based on the “Scope of Work” in your subcontract. It needs to list activities, results, publications, presentations, and outreach that resulted from your participation in the project. It should also describe commercial trials conducted and industry adoption of new varieties in your state. A copy of each state’s variety trial report can be sent and attached to the progress/final reports to complete the picture.
  - **Future Grant.** I have not heard whether there will be an RFA for a 2014-2015 grant program and what the deadlines will be if there is one. It is a priority area for the US Potato Industry and they have had good success in the past.
We have requested $320,000 for the East in recent years and been funded at ~$240-260K. The process requires revised paperwork due to the reduced funding, but my feeling is that we have to try for at least $320K as this is really less funding than we need to do this research. The group should discuss whether to continue to request $320K as in past years and any changes they would like to see in the project and proposal. Please let me know what you come up with.

- Discussions around applying for funding amount? **Key points** – ask for usual amount of ca. $320K and accept cost cut or just budget accordingly? Consensus is to stay for same amount we have been asking.
  - Craig Yencho - If we want new funding then we may need to think about reaching out to other regional programs to find ways of collaborating.
  - Matt Kleinhenz – Pointed out we may have lots of new opportunities in the east also

8. State, Federal, and Provincial Site Reports
   New Brunswick – See attached
   PEI – no report
   Maine – see attached (also read by MC)
   New Jersey – no report
   Maryland – very wet year, 2 clones did AF0338-17, AF3001-6 looked good. Snowden and Superior field infected by PVY, late blight came in late in the season. IHN incidence very light. Red Maria evaluated in MD – looked ok during field season but at harvest fairly pink. Black Gold interested in NY150 for clam-shell market – small white round potato, creamer market. Also thought AF0338-17 looked good.
   Pennsylvania – good year, Rocksprings somewhat dry, chip colors good out of field and holding up well in storage. AF0338-17 – good, seems to set high and some greening problems noted, AF3001-6 – good fry color. 600 lbs to KPP, oblong potato. More requests for an out-of-field potato. Harder and harder to source from NC or to get out of field after NC is done. New chip company moving into Erie Cty PA, KLN Family Brands, from Minnesota.
   Virginia – Richard updated on the status of the position. Position has been advertise.
   Hope to have filled by 1 July.
   North Carolina – No late blight in NC, Season started very cool and wet and ended wet.
   Ca. 16,000 acres. Very little IHN. Black Gold AF0338-17, AF4157- (dies early and too small). NY136 and Dark Red Cheiftain looked good as reds. Yellow-fleshed – Augusta, Soraya,
   Florida – Dry at planting, then heavy rains near end of season – 3-6” in some places and 8-9” in other sites. Some hail. Crop insurance claims for several growers. A few farms trying Elkton. Four growers.

   Ohio – Largest growers table and chip stock; lots of diversified potato growers, looking for reliable red and yellow clones; season rainfall was variable, but good yields and
chip color, 90% of chipstock out of field, Atlantic low IHN, some vascular discolor; temps and rain not conducive to IHN.

9. Comments from Industry Representatives – Big issues – quality and solids are big issues, AF0338-17 looking very promising in FL, TX, MO, NC. Two loads of seed for NC. MD - solids are low for some reason, even in ATL. Need for a good red in the east still exists. Beacon Chipper – good for quality, not IHN, yield lower than ATL. Would like to have more cvs that Frito will accept. FL looking at Lamoka.

- Comments on Funding and Collaboration – Ask for what you need. Probably long term we might need to look at inter-regional collaborations, especially if you introduce a new variety. For example: AF0338-17 best line in 5 different trials in different regions.
- Discussions on what will happen with potato breeding programs in the future. There are 14 active breeding programs now in the US. Is this sustainable?


Adjourn 6:00PM

Dinner – 7:30 PM

February, 4 – 8:00AM

11. Pathology Tests Reports
   USDA-ARS (Beltsville) – see attached
   Maine -
   Pennsylvania – late blight, early blight, powdery scab, common scab
   Hard copies distributed,

   Others – no other reports.

12. Breeding/Genetics Reports
   USDA-ARS (Beltsville) – See attached, Lincoln discussed their work and that of Kathy for N use efficiency in addition to presenting the submitted report.

   Maine – see attached,

   North Carolina – Clean-up of two NC clones at Uhlein Farm. NC0349-3 and ??? going for fast-track program, will submit to NE1231 in next year or so. See report.

   Virginia –

   Fredericton – no report
13. Seed orders, shopping list, new entries – Greg Porter
    Mark assisted with shopping list.
    New clones added to the list – Breeder’s Choice Clones for 2014 – AF4138-8, see additional, notes

14. Update on the NE1231 website/database development – Mark Clough/Don Halseth
    Database growing,
    Need New ideas to improve website:
    Add list of seed growers to website? Or sources of seed growers?
    List new varieties tested every year with contact information.
    Program highlights page

15. Grants/Funding: new opportunities? Links for AFRI shared by Ann Marie Thro

16. Old Business
    NE1231 rewrite –

17. New Business (if any) – no new business

18. Committee Reports –
    Clough – Sudeep nominated as secretary., Craig Yencho, Vice-chair, Greg Porter – Chair
    Site Selection – Meet at Potato Expo2015, Jan. 7-9, 2015 Meet last 1.5 days of conference, Clough moves to accept, Mike 2nd. Unanimous.
    Resolutions: Matt Kleinhenz – Read and approved.


Comments for the NE1231 Meeting at Virginia Beach, February 3-4, 2014
Greg Porter, University of Maine
USDA-NIFA Special Grant update

Current Grants. We received funding again for 2013-2014 (grant period 9/1/13 to 8/31/14) despite all of the difficulties with the federal budget. The subcontracts should all be in place at this time. Due to the timing of the receipt of the grant and funds, I’ll be requesting a 12-month, no-cost extension of the grant (as usual) to August 31, 2015. Our previous grant was extended (Sept 1, 2012 to August 31, 2014) and most funds have been expended. Each participating institution needs to work on spending funds in a timely manner and in the budget lines of the original request. Several states have funds remaining in the 2012-2014 grant. These funds need to be spent on project expenses before the termination date as the 2012-2014 grant cannot be extended again.

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Maine Variety Trial Report
Maine grew ~53,000 acres (roughly 60% goes to fry processing and chips). The remainder split between fresh and seed. Seed production is very important to us. Winter test results...
for certification were much better for the 2013 crop than the 2012 crop; however, PVY remains a challenging problem.

We conducted variety trials in three locations as usual. Growing conditions for yield and quality were good in Central Maine, but it was very wet (2nd wettest on record) in many areas of northern Maine. Thankfully we got a dry period of weather from mid-September to mid-October and were able to get the crop harvested after 8 inches of rain in early September. We had a lot hollow heart and there have been some rot and fry color problems. These are expected problems with so much water and relatively cool temperatures.

Varieties in our NE1231 and related trials that did particularly well in 2013 were:
Fresh Market: AF4138-8, NY150 (specialty), AF4659-12 (specialty)  
Chips: AF0338-17 (field only), AF4157-6, AF4648-2, BNC182-5 (field only), NY148  
Russets: Classic Russet, Dakota Trailblazer, Teton Russet, AF3001-6 (Easton), AF3362-1, AF4296-3, AF4172-2, AF4124-7

Breeding Report:
AF0338-17 was named ‘Sebec’ in late 2013. It is targeted as an out-of-field chipper with good yields and size like Atlantic, but much less hollow heart and internal necrosis.

AF3001-6 was named ‘Easton’. It has outstanding yields, fry color, and internal quality. It is primarily for fry processing, but is also a very good eating potato. PVP applications have been submitted. I’ll be contacting NE1231 cooperators to participate in release publications for AJPR.

AF4138-8 looks very promising for fresh market. AF4659-12 is a small “fingerling” type specialty clone with red and yellow pinto coloration and yellow flesh. Specialty marketers have been very impressed with it so far. It is great roasted! AF3362-1 continues to be an outstanding russet for northern areas, but we have had trouble keeping PVY out of the seedlots. This has slowed its development. I’d like to release it and submit PVP in 2014. AF4157-6 is early maturing and chips very well out of the field in the south and from storage in the north. It has excellent chip color from 42F, but has inconsistent (often small) tuber size and is very scab susceptible. AF4648-2 is exciting in that it combines good chipping quality with excellent scab resistances and is PVY immune (Eva is a grant parent). Seed supplies have been limited due to its inclusion in NCPT, but we should have enough seed for a few trials in 2014 and SFA trials in 2015. Along with AF0338-17 and AF4157-6, it is in the USPB FastTrack Program, so seed supplies are being built quickly.

Maine growers have certified seed of AF0338-17 (Sebec), AF3001-6 (Easton), and AF3362-1. Check the ME Certified Seed listing. Our program has research seed supplies for small, commercial trials: AF0338-17 (Sebec), ~100 cwt; AF3001-6 (Easton), ~30 cwt; AF3362-1, ~20 cwt; AF4138-8, ~40 cwt; AF4157-6, ~20 cwt; and more. Please check with me if you are interested in coordinate a grower trial with any AF clones.
Breeder’s choice selections for 2014 are AF138-8 and AF4640-1. Both are fresh market round-whites.

**NE1231 Seed and Shipping List:**
Our winter test results were much better this year than last. Most of the clones passed certification. A010101-1 (6.5%) and CO099076-5R (7.7%) are the only two that failed and that we don’t have back-up seedlots of (a couple of AF clones failed and we’ll send breeding program seed of those to replace NE1231 seed). If your program wants to look at A010101-1 and CO099076-5R even though they did not pass certification let me know, otherwise I won’t be sending them out.

Please go through the list at the meeting (attached). Clones with three years or more in NE1231 are not typically kept in the seed nursery. They are considered done testing and are not replanted. Please let me know if the group wants to keep them in for an extra year. Please get breeder’s choice selections for 2014 from the breeding programs. Breeder’s Choice selections should be tested in all states. Maine’s are AF138-8 and AF4640-1. Both are fresh market round-whites.

Sorry to miss seeing you all!

Greg Porter
Field Evaluation of Common Scab Reaction
Potato Research Centre
2012

Field plots (2 x 10 sets) were planted on June 1, 2012 in a lattice design in a scab nursery maintained at the AAFC Potato Research Center, Fredericton, NB. Conditions favorable for scab development were maintained with high pH. At harvest on October 9, 2012, the tubers were rated for pustule type (1 – 5) and surface area covered. Raw data were converted to a relative percentage of the closest susceptible check. The percentage values were then indexed on a 1 – 9 scale of increasing susceptibility. Usually Green Mountain has a value of 8, Avon 5, Hindenburg 2 on this scale.

<table>
<thead>
<tr>
<th>ENTRY</th>
<th>RATING</th>
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<tbody>
<tr>
<td>AF0338-17</td>
<td>3(4) - 2 yr</td>
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<tr>
<td>AF3008-3</td>
<td>3(4) - 1 yr</td>
</tr>
<tr>
<td>AF3317-15</td>
<td>3(4) - 3 yr</td>
</tr>
<tr>
<td>AF4013-3</td>
<td>7(4) - 1 yr</td>
</tr>
<tr>
<td>AF4040-2</td>
<td>5(4) - 2 yr</td>
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<tr>
<td>AF4125-1</td>
<td>3(4) - 1 yr</td>
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<tr>
<td>AF4157-6</td>
<td>7(5) - 1 yr</td>
</tr>
<tr>
<td>AF4172-2</td>
<td>7(4) - 1 yr</td>
</tr>
<tr>
<td>Alpine Russet</td>
<td>3(4) - 3 yr</td>
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<tr>
<td>Atlantic - check</td>
<td>4(4) - 1 yr</td>
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<tr>
<td>Avon - check</td>
<td>5(4) - 1 yr</td>
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<tr>
<td>B2731-11</td>
<td>2(5) - 1 yr</td>
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<tr>
<td>BNC182-5</td>
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<tr>
<td>Chieftain - check</td>
<td>5(4) - 1 yr</td>
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<tr>
<td>Classic Russet</td>
<td>2(3) - 3 yr</td>
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<tr>
<td>Dakota Crisp</td>
<td>4(4) - 1 yr</td>
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<tr>
<td>Dakota Trailblazer</td>
<td>4(4) - 1 yr</td>
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<tr>
<td>Green Mountain- check</td>
<td>8(5) - 1 yr</td>
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<td>Hindenburg - check</td>
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<td>Modoc</td>
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<tr>
<td>Yukon Gold - check</td>
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Agnes M. Murphy, January, 2014.