



**North Central Regional Association of State Agricultural
Experiment Station Directors**

203rd Meeting
Rushmore Plaza Holiday Inn, Rapid City, SD
July 14, 2015
9:30 am to 12:00 pm

Final AGENDA ([click here for the meeting MINUTES](#))

<i>Time</i>	<i>Item #</i>	<i>Topic</i>	<i>Presenter</i>
9:30 am	1.0	Welcome and Call to Order	Ernie Minton, NCRA Chair 2015
	2.0	Approval of Spring 2015 Minutes, see: http://ncra.info/docs/Historical/Minutes/April2015.pdf	
	3.0	Adoption of the Agenda	
	4.0	Interim Actions of the Chair	
9:35 am	5.0	NCRA Office Report 5.1 ED and AD Activities 5.2 NCRA Plan 5.3 Budget Update/Discussion 5.4 NIMSS Update	Jeff Jacobsen and Chris Hamilton
10:05 am	6.0	MRC Report and other 6.1 Revised Projects Approved for FY2015 6.2 NC OTT Budget Approvals: NC1100, NC7 6.3 Multistate Award 6.4 NRSP Report 6.5 FFAR Update	Archie Clutter, MRC Chair 2015; Doug Buhler, NCRA NRSP-RC Rep
10:20 am	7.0	Other Business (ESCOP committee updates provided as written briefs only) 7.1 NCRA Nominations Committee: FY2016 Officer List 7.2 ESCOP Science and Technology Report 7.3 POW Panel Recommendations to NIFA	Ernie Minton, Jeff Jacobsen, All
10:35 am	<i>Break, as needed</i>		
10:50 am	8.0	Best Practices Discussion Session I: State of the state with Unmanned Aerial Systems (UAS)	All
11:05 am	9.0	Best Practices Discussion Session II: Multistate funding approaches across NCRA (funding for multistate participants – practice and guidelines)	All
11:25 am	10.0	Best Practices Discussion Session III: IP Issues (ownership, contracts, agreements, overhead) <ul style="list-style-type: none"> • Language implications: "Other universities accept this" • Companies, foundations, gifts, commodity groups 	All

		<ul style="list-style-type: none"> • Projects with federal funds co-mingled 	
11:50 am	11.0	Fall NCRA Meeting Topics	Ernie Minton, All
		<p>Future Meetings:</p> <p>http://ncra.info/Organization_UpcomingMeetings.php</p> <ul style="list-style-type: none"> • Joint COPs Meeting, July 19-22, 2015, Providence Marriott, Providence, RI • Fall ESS/AES/ARD Meeting and Workshop, September 28-30, 2015, The Ballantyne Lodge, Charlotte, NC • APLU Annual Meeting, November 15-17, 2015, JW Marriott Hotel, Indianapolis, IN • 2016 Joint CARET/AHS Meeting, March 6-9, 2016, The Westin Alexandria Hotel • 2016 NCRA Spring Meeting, dates and location TBD 	
12:00 pm	<i>Adjourn</i>		

MINUTES

Item #	Notes (Beyond Agenda Briefs)	Action Items
2.0	2015 NCRA spring meeting minutes approved	2015 NCRA spring meeting minutes approved
3.0	2015 NCRA summer meeting agenda approved Schedule change: Item 6.4 was moved up earlier in the schedule to accommodate Doug Buhler's travel schedule.	2015 NCRA summer meeting agenda approved
4.0 Interim actions of the Chair	<p>Monthly EC calls are occurring with NCRA EC (Ernie Minton, Deb Hamernik, Dave Benfield, Jeff Jacobsen, and Chris Hamilton) via phone and Zoom videoconference.</p> <p>FY2016 salary adjustments approved at the NCRA spring meeting 2015 have gone through for Jeff and Chris, effective 7/1/2015</p> <p>NCRCRD Board Membership is heavy on directors, currently with 3 AES and 3 EXT. NCCEA agrees with the NCRA that the number of directors on the board could be reduced. The NCRA approved reducing the number of AES directors on the board to one from the host state plus one additional director.</p>	<p>The NCRA approved reducing the number of AES directors on the board to only a host state director, plus one additional director.</p>
5.1 ED and AD Activities	Please see Jeff and Chris' agenda brief .	For information only
5.3 NCRA Budget Update/Discussion	<p>UW based budget on target, entering FY2016 with a carry-over of about \$70,000. Chris will begin invoicing MSU quarterly when \$25,000 remains in the UW-based office account.</p> <p>The NCRA office budget has been the same for more than 5 years. There was discussion on potentially increasing the office budget to accommodate projects and personnel adjustments. More discussion to come during monthly EC calls and fall/spring NCRA meetings.</p>	For information only
6.2 NC OTT Budget Approvals	NC1100 and NC7 budget approvals: NC1100 submitted a full, five year flat budget request with their proposal at our spring 2015 meeting and NC7 submitted their FY2016 budget and plan for review at this meeting. NCRA directors voted to approve both budgets.	<p>NC1100's 2015-2020 full 5-year \$25,000 annual budget was approved.</p> <p>NC7's FY2016 budget was approved.</p> <p>Chris Hamilton will inform NIFA of these approvals (done)</p>

6.4 NRSP Report	<p>Don Latham, the NRSP-RC CARET liaison was present at NCRA meeting for this topic.</p> <p>NRSP6: After the NRSP-RC meeting, Jeff and Doug connected with National Potato Council and MI potato growers, who indicated support for NRSP6. Discussions are currently going forward. Rick Lindroth thanked Jeff and Doug for starting these discussions with potato groups. Discussion ensued about future NRSP6 funding possibilities beyond the NRSP model.</p> <p>Preliminary discussions have occurred regarding starting a new NRSP associated with big data. This topic may be beyond the scope of the NRSP mission. For big data in general, we may wish to engage APLU.</p>	For information only. NRSP vote will take place during the fall ESCOP business meeting in Charlotte, NC.
6.5 FFAR Update	<p>As announced on June 12 by APLU, Dr. Sally Rockey, the current deputy of extramural research at the National Institutes of Health, will lead the foundation as its first executive director, starting in September.</p> <p>The Board is working on a new Ag prize, as well as other budgetary issues. Ideally, the FFAR would like to be able to provide rapid response funds to emerging issues. The Board will be looking into this and other functions as they go forward.</p>	For information only.
7.0 ESCOP Reports	<p>Please refer to the ESCOP summer meeting agenda to view current committee reports not included with this agenda.</p> <p>Budget and Legislative Committee: monthly calls are focusing on the water initiative. The Chair is working on using the water initiative as a way to move “Big Ask” projects into the USDA pipeline. Currently, it takes about two years to get these into the system.</p>	For information only.
7.2 ESCOP Science and Tech committee report	Please see S&T agenda brief . Overall, ESCOP S&T activities have ramped up over the past year. The committee has monthly calls and will meet face to face on October 1 after the Fall ESS meetings.	For information only.
8.0 UAS Discussion	<p>Discussion ensued around unmanned aerial systems at NC LGUs. It is clear that many are dealing with issues around licensing, regulations, training, etc.</p> <p>Perhaps have an expert attend an NCRA</p>	Jeff/Chris will add this topic to future meetings and periodically ask directors for updates, more tips, and look into possibly securing an UAS expert to speak at a future meeting.

	<p>meeting to help with guidelines and regulations? We can add this topic to our Best Practices discussions at the NCRA meetings. The NCRA office could request periodic updates on status, tips, etc.</p>	
9.0 Multistate funding approaches across the NCRA	<p>UNL RFA and decision tree for applying for internal multistate funds. Base is travel funds, can complete for supplemental (up to \$10,000) or enhanced fund (up to \$100,000), but must submit a proposal. Enhanced and supplemental require an annual report. They are pushing for more team Hatch projects to cut down on reporting and proposals, creating a better link between Hatch projects and outcomes. UNL continues to push for these mechanisms to be leveraged for external funding sources. Please see UNL's multistate award process for more information on their internal grant program.</p> <p>MO: Any participant on CC or ERA project receives \$1000 for travel to annual meeting. For multistate research projects, 25 researchers receive \$10,000/year for travel and project related activities. These funds are allocated to different divisions.</p> <p>WI: Multistate funds are merged into an annual competition with Hatch and McIntire-Stennis funds. Grants are 3-4 years, usually single investigators only. If researchers can show a connection to an existing multistate project, then they receive support from the pool.</p> <p>SD: Interested in moving towards a competitive pool system, as well, but not quite there yet.</p>	For information only.
10.0 IP Issues	<p>Greg Cuomo passed out MN-IP Create and Try and Buy documents, attached at the end of the meeting agenda briefs.</p> <p>Contact Jeff when IP issues come up, especially when there may be confusion over what different institutions allow. Jeff can research the issues and work towards solutions.</p>	We will keep IP on agenda as a topic so that we can provide updates at each meeting.
Other Discussion	<p>NCRA meeting format: Jeff Jacobsen proposed reversing the usual NCRA agenda format so that we start with Best Practices (BP) discussions and end with business meeting updates.</p>	

	<p>Directors requested that we try to accomplish as much business as possible electronically before the meetings to maximize discussion time for BPs.</p> <p>We should reach out to our CARET reps to see what they need from the AES directors. Chris Hamilton will make sure the nc_caret email list is current (it was updated last year) and Jeff will contact our NC CARET reps for more information on what the NCRA can do for them.</p>	<p>Chris Hamilton will make sure the nc_caret@lists.wisc.edu email list is current and Jeff will contact our NC CARET reps. As of 7/20/2015, Chris has emailed Eddie Gouge at APLU for an updated NC CARET list.</p>
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AGENDA BRIEFS

Item 5.1: ED and AD Activities

Presenters: Jeff Jacobsen and Chris Hamilton

Mini Land-grant 2015 (Rapid City, SD)

Jeff Jacobsen's Activities April to July 2015:

- Attended the newly formalized SERA46 meeting that was held in conjunction with the federal Gulf Hypoxia Task Force. There are 7 of the 11 states participating from the NC region. An aggressive and comprehensive calendar has been created with quarterly conference calls and work products designated. Although there is not directed funding available at this time, I encourage director support of their faculty's engagement with this effort.
- Continued the discussions with Marianne Bracke (Purdue) on Open Access Publications and Data. She has contacted her NC region colleagues to gauge interest in and secure commitments to participate with a regional effort TBD. A proposal will be created for potential NC efforts and will be reviewed/approved by the Executive Committee for funding from the NCRA Office.
- Worked with MSU AgBioResearch Communications professional (Holly Whetstone) to revise and submit the NC140 project to the national competition. NC140 was successful and will be awarded the 2015 Multistate Research Award. The recommendation is to continue this extra polishing on the NC Multistate nominee in the future.
- Created a synopsis of the NRSP6 project review which led to email conversations, phone calls and a National Potato Council conversation at their summer meeting. If the National Potato Council concurs additional conversations will take place with a more expansive group of stakeholders to evaluate alternative funding strategies beyond NRSP.
- A concept of an Innovation Corridor (MN, IA, NE, SD, ND) is being explored with the lead from the Canadian Consulate, key Canadian universities and the above NC institutions coupled with venture capitalists from the US and Canada. The overarching activity is to develop a thematic thrust that would be enthusiastic to investors and match up with university technologies that are ready for commercialization.
- Organized an initial meeting with the Great Lakes Specialty Crop Climate Consortium and Climate with NE region (PA, NY), CN (future) and NC region (MI, OH, (future WI, MN, IA))
- Panel Manager for the second year of the CARE program.

- S&T Committee efforts have been ramped up to include reviews of the NRC Report on the AFRI program, Open Access Implementation Plan), Excellence in Multistate Research and ED support to the NIPMCC and Social Sciences Subcommittee (future).
- Integrated elements of the NCRA Plan into mini Land-grant meeting and future activities.
- Worked with NIFA staff to routinely publish Hatch and Hatch Multistate actual allocations along with the NRSP allocations. The NCRA and other regions can now use these with a better level of confidence in their validity. NCRA assessments are based upon this accurate information.
- NIMSS redesign efforts continue to be monitored and acted upon with Chris Hamilton being the technical lead and interface with the Clemson ITT contractor. She is assisted by Sarah Lupis and minimally by this ED.
- TRAVEL – SERA46 (Columbus, OH), 1890 125th Celebration (DC), Joint COPS (Providence, RI), Corn CAP and UNL (Nebraska City and Lincoln, NE), National IPM Coordinating Committee (DC), ESS (Charlotte, NC), CARE Panel (DC), Wharton training (Philadelphia, PA), APLU and ESCOP (Indianapolis, IN).

Chris Hamilton’s Activities, April to July 2015:

- Followed-up on all MRC and NCRA actions and recommendations to all projects up for review this cycle:
 - Informed approved projects of their renewal
 - Worked to ensure all NC multistate projects that required revisions were completed on-time and forwarded to their appropriate MRC reviewer
 - Forwarded on approved NC projects for NIFA approval, then communicated with participating stations that the projects were available for REEport initiation
- Sent email reminders to all projects up for renewal and midterm review this fall.
- In the process of coordinating/making plans with Bob Godfrey at the Univ of the Virgin Islands for our spring 2016 NCRA meeting. More to come on this...
- Continue to serve as the NIMSS redesign team leader. Gave a presentation with Sarah Lupis at the NERAOC meeting in May in San Diego on the new system, as well as collected feedback on users’ needs for the new NIMSS. Liaised with NIFA and NIMSS developer in June to make sure NIFA’s REEport needs from NIMSS will be met.
- Coordinated the ESCOP Science and Technology review of multistate research award submissions and the subsequent ESCOP Executive electronic vote for approval
- Participated in monthly ESCOP S&T calls, prepared agendas and minutes, posted to ESCOP website
- Participated in monthly NCRA Executive Committee video teleconferences

- Attended the June 8 NCAC4 meeting in Madison. With Marc Linit (NCAC4 AA), helped clarify the NCRA expectations for NCAC4's annual project reviews.
- Created summer NCRA meeting agenda and MRC, NIMSS briefs
- Continue to provide NIMSS users with regular and prompt support, meeting authorizations, proposal revisions, participation issues, setting up new projects, etc.
- Attended UW's Certified Public Manager's *Writing Effective Grant Proposals* course (Friday, June 12, 2015)
- Manage day-to-day UW NCRA office activities (purchasing card, budgets, etc.)

Agenda Item 5.4: NIMSS Redesign Update (as of June 16, 2015)

Presenter: Chris Hamilton, Jeff Jacobsen

Overview of the New NIMSS: The new NIMSS system is project based, rather than task based, as the old system is. Depending upon their level of permission (such as regional admin, Station Director, AA, basic user), users will log in and immediately see updates and reminders for projects with which they are associated. From there, users can easily search for a project and access all related functions, such as editing participants, uploading reports and reviews. All text input boxes/editors now allow authors to format their content in a similar way to Microsoft Word. Auto-generated emails will be updated with appropriate links and helpful instructions, if needed. Database security will be greatly improved and our current contract with the Clemson University's Information Technology Team (ITT) will ensure ongoing maintenance and upgrades, at least for the next two years of our contract. Overall, the new system has a modern look and feel, with improved functionality that should make tasks easier and faster for all users. *Attached Branding and Architecture pages below this update illustrate what the new system looks like and how it functions.*

Main NIMSS Functions: Function and styling for Projects, Participants, Reports/Meetings, Impact Statement, and Reviews options are complete. The Directory is the only remaining function that still needs development. The User Interface Team is now going back through and styling intermediate screens, such as the login landing page and others. A few of the review forms may be updated at some point, as request by (we are waiting on updated forms, but believe that the forms can be updated in the system later, as needed). Jeff Jacobsen, Sarah Lupis, and Chris Hamilton are also working on streamlining and re-wording the NIMSS email auto-notifications.

Existing NIMSS Data Migration: Data migration from the old to the new system is underway. Clemson ITT has created a data map and they are working to make sense of the old system and existing data. This will take some time, but Jason Eichelberger is working on creating software to re-run and remodel the data to current, modern standards, which will improve future structure and efficiency. Data will also be indexed to enable and enhance search functions.

BETA Testing: Once styling and data remodeling is complete, Clemson ITT will have a functional system for beta testing. Chris Hamilton and Sarah Lupis will share this testing link with the NIMSS Redesign Team over the summer to make sure things work properly and identify any gaps. Currently, we can look at the testing system and follow the completed menu structure, but without data, it's not possible to explore functions properly. More information on how the ESCOP NIMSS redesign team and Clemson ITT will interface will come in the future. Chris Hamilton/Sarah Lupis will be in touch with the NIMSS Redesign Team as soon as testing can begin, either by email or phone, depending upon scheduling.

Migrating Data to NIFA: Chris Hamilton and Jason Eichelberger had a call with NIFA on 6/9 to introduce Jason to the NIFA REEport IT team. Jason is now in contact and working closely with NIFA to learn what they need from the new system. He's gone through the old system and located the existing interchange file protocol for NIFA and indicates that it will be fairly straightforward to give them the data they need.

Updated Password Protection: The new NIMSS will have updated 256 bit encryptions of passwords, so all users will be prompted to change their existing passwords immediately upon accessing the new system. This will result in a much more secure system.

System Launch: We tentatively expect to shut down the current system in late August to allow all remaining data to be migrated to the new NIMSS system. This could take up to two weeks, but we expect less. After the data is migrated, the new NIMSS will launch and be ready for immediate use. Estimated launch is August/early September. After launch of the new system, the old NIMSS will not be accessible for use.

Contract: The contract with Clemson University's Information Technology Team) was executed April 2015 for the three year period as articulated in NRSP1. APLU (Peter McPherson, President) on behalf of the ESS, and Clemson University (George Askew, Vice President Public Service Agency) were the signatories.

Action Requested: None, for information only.

Item 6.0: MRC Report

Presenter: Archie Clutter, 2015 MRC Chair

Item 6.1: Revised NC Projects Approved for FY2015

At the request of their MRC reviewers, the following remaining projects were revised and subsequently approved for renewal on 10/1/2015:

- NC1100 (NC_temp1100): Land Grant University Innovation Diffusion Enhancement
- NC1183 (NC_temp1183): Mycotoxins: Biosecurity, Food Safety and Biofuels Byproducts
- NC1187 (NC_temp1187): The Chemical and Physical Nature of Particulate Matter Affecting Air, Water and Soil Quality
- NCCC211 (NCCC_temp211): Cover crops to improve soil health, agricultural sustainability, and environmental quality in the upper Midwest
- NCCC31 (NCCC_temp31): Ecophysiological Aspects of Forage Management
- NCERA197 (NCERA_temp197): Agricultural Safety and Health Research and Extension

New NCDC229, *Health, well-being, and economic opportunity for LGBT persons in rural communities* approved on July 1, 2015. Dr. Robert Hughes of IL is serving as AA.

Action Requested: None, for information only.

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**Item 6.2: NC Regional Trust Off-the-Top (OTT) Funding Requests for NC1100 and NC7
Presenter: Archie Clutter, MRC Chair FY2015**

Background:

Annually, the NCRA approves the NC OTT Regional Trust budgets for the new fiscal year. During the 2014 Spring NCRA meeting, the NCRA approved the option for regional trusts to submit a flat, full five year budget for approval. Since NC1100's 5-year project renewal was recently submitted and approved by the NCRA and NIFA, NC1100 is requesting approval of their FY2016-2020 budget.

NC7 is seeking formal approval of their FY2016 budget request only, at this time. Neither budget request has increased in the past several years.

Please see detailed budgets below.

NC1100: \$25,000

NC7: \$522,980

Action Requested: Approval of the NC1100 FY2016-2020 and NC7 FY2016 budget requests.

NC1100 FY2016-2020 Full Five-Year Budget

DESCRIPTION	Proposed FY 15-16 (year 1)		Proposed FY 16-17 (year 2)		Proposed FY 17-18 (year 3)		Proposed FY 18-19 (year 4)		Proposed FY 19-20 (year 5)	
	Dollars	FTE	Dollars	FTE	Dollars	FTE	Dollars	FTE	Dollars	FTE
J. Mann Salary	25,000	.34	25,000	.33	25,000	.33	25,000	.32	25,000	.32
Fringe Benefits	0		0		0		0		0	
TOTAL	25,000		25,000		25,000		25,000		25,000	

Michigan State University Match										
DESCRIPTION	Proposed FY 15-16 (year 1)		Proposed FY 16-17 (year 2)		Proposed FY 17-18 (year 3)		Proposed FY 18-19 (year 4)		Proposed FY 19-20 (year 5)	
	Dollars	FTE	Dollars	FTE	Dollars	FTE	Dollars	FTE	Dollars	FTE
SALARIES	0		0		0		0		0	
J. Mann Fringe Benefits	6,733		6,865		6,998		7,138		7,280	
TOTAL	6,733		6,865		6,998		7,138		7,280	

Grants/Contracts (USDA NCRCD Budget) Match										
DESCRIPTION	Proposed FY 15-16 (year 1)		Proposed FY 16-17 (year 2)		Proposed FY 17-18 (year 3)		Proposed FY 18-19 (year 4)		Proposed FY 19-20 (year 5)	
	Dollars	FTE	Dollars	FTE	Dollars	FTE	Dollars	FTE	Dollars	FTE
Communications Staff Salary	4,920	.10	5,018	.10	5,119	.10	5,221	.10	5,325	.10
Communications Benefits	2,248		2,332		2,420		2,512		2,607	
TRAVEL	2,000		2,000		2,000		2,000		2,000	
TOTAL	9,168		9,350		9,539		9,733		9,932	

Budget narrative: John Mann’s time is required to recruit webinar participants and execute the various surveys. He will also participate in developing project outputs. Michigan State University does not charge fringe benefits on multi-state projects, representing a match. The USDA- funded NCRCD core budget will support communications staff to assist with the marketing and execution of webinars, and travel to conferences to present draft project outputs.

FY16 NC7 Budget Request and FY15 Budget Narrative

NC-7 Budget Narrative: The Agricultural Experiment Directors of the North Central Regional provide substantial Hatch funding to Multi-State Project NC-7 (\$522,980 annually for the past decade), and Iowa State University provides additional, substantial in-kind and direct support. In these difficult financial times, we especially appreciate the commitment of the NCR SAES Directors.

Personnel: NC-7 Hatch funds provide a substantial portion of the personnel and operating expenses of the North Central Regional Plant Introduction Station, responsible for plant genetic resource and information management. Nine ISU Agronomy Department personnel are dedicated to the NCRPIS and supported by Hatch and ISU resources: Larry Lockhart, Program Manager II; Kathleen Reitsma and Laura Marek, Curator III; David Brenner, Curator II; Cindy Clark, Sam Flomo, and David Zimmerman, Agricultural Research Specialists; Brian Buzzell, Farm Equipment Mechanic; Lloyd Crim, Farm Equipment Operator III; and 3 months' effort from John Reinhart, Farm Equipment Operator II. Iowa State University College of Agriculture & Life Sciences provides the benefits for these staff members, retired ISU/NCRPIS personnel, and an additional Assistant Scientist III, Grace Welke. Hatch resources are also used to support short-term student hires, usually for about six weeks while they are converted to Federal student positions. Since 2006, vacant ISU positions have not been refilled, and one support position was eliminated due to constraints.

In FY2016, NC-7 funds will substantially provide for additional student labor to accomplish curatorial objectives.

Travel: Each Curator and the Program Manager are allocated travel funds for at least one professional meeting annually. Additional travel expenditures are related to plant germplasm collection and regeneration plot care or data collection.

Equipment and Supplies: Expenditures that cannot be covered using ARS funds.

Contract Services: FY 2016 will include metering costs for irrigation water, refuse and other services.

Repair and Maintenance: In FY15, primary NC7 fund expenses were to repair water lines on Agricultural Experiment Station land and address the roof of the Program Manager's residence on station. ARS funds are used to cover R&M needs for facilities covered by lease agreements and ARS equipment. ARS funding has been allocated to provide a three-phased backup generator system, currently being bid by procurement. The roof of the HQ building and the GEM cold storage building need to be coated to extend their lifetimes. No major R&M NC7 expenses are planned. NC7 staff have worked to improve drainage in problem areas to reduce loss of plantings due to excessive rains, and generally improve the quality of the fields for research, but additional investments need to be made.

ARS Resources: FY2015 resources are approximately those of FY2010. FY2016 is unknown.

FY16: Any funding reductions will impact projected expenditures, which would significantly impact our ability to accomplish the mission of the North Central Regional Plant Introduction Station, conservation and utilization of plant genetic resources and information management.

Basic Budget	NC7 FY06	NC7 FY15 Budget Submitted¹	NC7 FY15 Budget Projected²	NC7 FY16 Budget
Personnel: salaried	434,000	492,275	485,200	488,400
Personnel: hourly	10,000	4,500	33,240	11,580
Utilities & Telecom	0	0	4,500	4,500
Travel	24,000	7,000	11,760	7,500
Equipment & Supplies	55,762	4,000	46,100	6,000
Research Support Agreement	0	0	0	0
Specific Coop Agreements	0	0	0	0
Contracts & other Services	4,500	500	7,500	0
Repair & Maintenance	0	10,000	5,000	5,000
Indirect Research Costs	0	0	0	0
Other	0	0	640	0
Leveraged funds- other sources	0	0	0	0
Total Expenditures	528,262	518,275	593,940	522,980
Base Funds	528,262	522,980	522,980	522,980
Prior FY Carryover	0	81,503	81,503	0
Total Funds	528,262	604,483	604,483	522,980

Iowa State University Contributions to NCRPIS

Items	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15 est.
Salaries	0	0	0	0	0	0	0	0	0	0	0
Benefits ¹	156,720	161,421	166,264	180,220	194,306	186,101	205,066	192,213	201,159	210,767	222,819
Facilities off-campus ²	83,933	86,451	89,045	91,716	94,467	97,301	100,220	103,227	106,323	109,513	112,798
Facilities on-campus ²	118,391	121,943	125,601	129,369	133,250	137,248	141,365	145,606	149,974	154,473	159,108
Farm Residence ²	14,008	14,428	14,861	15,307	15,766	16,239	16,726	17,228	17,745	18,277	18,825
Totals	373,052	384,243	395,771	416,612	437,789	436,889	463,377	458,273	475,201	493,030	513,550

¹Actual benefits may vary from annual estimate depending on personnel changes, benefit cost increases, and personal choices from cafeteria benefit plan.

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Item 6.3: Multistate Research Award

During our spring 2015 NCRA meeting, NC140 was recommended and approved as our NC nominee to the National Excellence in Multistate Research Award. Subsequently, the ESCOP Science and Technology Committee chose NC140 out of the four other submissions to be the national winner. The ESCOP Executive Committee then voted to officially approve NC140 as the national winner.

Please refer to the [ESCOP Science and Technology committee brief](#) for more details on the approval vote and the updated nomination form for 2016's award.

Action requested: None, for information only.

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NRSP Review Committee Agenda Brief (Summer Meetings)

Presenters: Doug Buhler

For information only

NRSP Review Committee Members

<p>Bret Hess, Chair (WAAESD)</p> <p><u>Delegates:</u></p> <ul style="list-style-type: none">• Fred Servello (NERA)• Shirley Hymon-Parker (ARD)• Doug Buhler (NCRA)• Tom Bewick (NIFA)• Clarence Watson (SAAESD)• L. Washington Lyons (Cooperative Extension)	<p>Executive Directors:</p> <ul style="list-style-type: none">• Eric Young (SAAESD)• Mike Harrington, Executive Vice-Chair (WAAESD) <p>Interim Delegate:</p> <ul style="list-style-type: none">• Tim Phipps (NERA) <p>Stakeholder Representative:</p> <ul style="list-style-type: none">• Don Latham (CARET)
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Background:

The NRSP Review Committee (NRSP-RC) met in Denver, CO on May 28, 2015 for its annual meeting to review proposals, budgets, and guidelines and make recommendations for funding. Recommendations will be presented at the Fall ESS/SAES/ARD Meeting and are included in the NRSP portfolio table, below.

NRSP 2015-2016

Requests for Off-the-Top Funding

Project	Request FY2013	Authorize d FY2013	Request FY2014	Authorize d FY2014	Request FY2015	Approved FY2015	†Request FY2016	NRSP Review Committee Recommendation
NRSP1 ¹	50,000	50,000	75,000	75,000	300,000	300,000	183,500	
NRSP3	50,000	50,000	50,000	50,000	50,000	50,000	50,000	
NRSP4	481,182	481,182	481,182	481,182	481,182	481,182	<i>see below</i>	
NRSP6	150,000	150,000	150,000	150,000	150,000	150,000	<i>see below</i>	
NRSP7	325,000	325,000	325,000	325,000	325,000	325,000	<i>see below</i>	
NRSP8	500,000	500,000	500,000	500,000	500,000	500,000	500,000	
NRSP9	175,000	175,000	175,000	175,000	175,000	175,000	175,000	
NRSP10 ²					398,631	398,631	370,165	
NRSP_TEMP 004 (NRSP4)							481,182	<i>Approve proposal/budget; request further explanation for maintenance funding level requested.</i>
NRSP_TEMP 006 (NRSP6)							150,000	<i>Approve proposal/budget; require committee to investigate alternative funding models and report back to NRSP-RC at mid-term review. See attached.</i>

NRSP_TEMP 7 (NRSP7)							325,000	<i>Reject proposal/budget. See attached.</i>
NRSP_TEMP 9 (NRSP9_							225,000	<i>Approve proposal/budget.</i>

†As of 2012, all NRSP budgets are approved for the duration of their current 5-year cycle, assuming an acceptable midterm review.

²Unlike other NRSPs, the NRSP10 MRF budget varies. The 5-year budget is as follows (please reference NIMSS for complete budget details):

	FY2015	FY2016	FY2017	FY2018	FY202019
MRF Funding	398,631	370,165	381,834	433,969	406,591

Summary of NRSPs

Project Number	Project Name	Project Period	Midterm Review Year
NRSP-1	National Information Management and Support System (NIMSS)	2014-2017	2016
NRSP-3	The National Atmospheric Deposition Program (NADP)	2014-2019	2017
NRSP-4 (NRSP_TEMP4)	Enabling Pesticide Registrations for Specialty Crops and Minor Uses	2015-2020	2018
NRSP-6 (NRSP_TEMP6)	The U.S. Potato Genebank: Acquisition, Classification, Preservation, Evaluation and Distribution of Potato (<i>Solanum</i>) Germplasm	2015-2020	2018
NRSP-7 (NRSP_TEMP7)	A National Agricultural Program for Minor Use Animal Drugs	2015-2020	2018
NRSP-8	National Animal Genome Research Program	2013-2018	2016
NRSP-9 (NRSP_TEMP9)	National Animal Nutrition Program	2015-2020	2018
NRSP10	Database Resources for Crop Genomics, Genetics and Breeding Research	2014-2019	2017

A Synopsis of the U.S. Potato Genebank: Acquisition, Classification, Preservation, Evaluation and Distribution of Potato (*Solanum*) Germplasm

(NRSP6)

Background

The official National Plant Germplasm System project for the US potato genebank is in the National Research Support System designated as NRSP6. The NRSP system is a key facet of the State Agricultural Experiment Station (SAES) System. NRSP6 provides germplasm stocks, germplasm data, R&D techniques and tools and custom materials for germplasm evaluation to the stakeholders such as public and private plant breeders, potato researchers, food suppliers and processors both domestically and internationally. NRSP6 has been a viable national project (since the 1950s) with current top 10 state (unit) users from CA, IA, ID, MD, MI, MN, NY, OR, WA and WI and, in reality, nearly 50 states using the Genebank over short timeframes. The Genebank has over 5,000 items of germplasm for the world's most important non-cereal crop with 45% of these being unique. While the demand for Genebank services is increasing, the overall financial health is declining; thereby creating uncertainties that project evaluators recommend broader discussions to identify options for a more sustainable future. Very preliminary conversations have occurred with the National Potato Council leadership and staff, a NRSP review team member, a state breeder, state potato commission and a regional agricultural research association. Other key leaders, users and stakeholders must be consulted and fully engaged in order to design alternative funding models.

Challenges

- Potato is a prohibited import crop, so current genetic resources in the US genebank are the only ones readily available to users. Continued restrictions on international germplasm collection and distribution limit new discoveries, thereby increasing the importance and use of the current stocks.
- Historical purchasing power erosion and direct cuts in program support across all of the primary funding sources (USDA Ag Research Service, State Ag Experiment Stations, University of Wisconsin-Madison, Industry, grants) and numerous in-kind contributions negatively impact the overall operation of NRSP6. Budget pressures have negatively impacted: personnel, operations, maintenance, facility and equipment. The end result is a tenuous future.
- A key essence of the NRSP system is to leverage expertise and resources across priority projects such that the SAES System and other users (as appropriate) benefit and share the costs. This is a strength as well as a weakness.

Next Steps

- Fortuitously, several key meetings are occurring which will allow for a more inclusive discussion and evaluation of future prospects for action (National Potato Council board and managers summer meeting, NRSP6 and regional ag research association(s)).

- Assuming that these discussions are favorable, key individuals should be identified to serve on a committee to delve deeper into the challenge and identify potential solutions that will lead to a consistent and sustainable funding model that will ensure a quality, financially stable and comprehensive US Potato Genebank well into the future.

A Synopsis of the National Agricultural Program for Minor Use Animal Drugs.

(NRSP-7)

Background

The minor use animal drug program has been in existence since 1983 with the following mission/objectives:

1. *Identify* animal drug needs, including naturally occurring biotherapeutics and feed additives, for minor species and minor uses in major species,
2. *Generate* and *disseminate* data for safe and effective therapeutic and biotherapeutic applications, and
3. *Facilitate* FDA/CVM approvals for drugs and biotherapeutics identified as a priority for a minor species or minor use.

NRSP-7 functions to coordinate efforts among animal producers, pharmaceutical manufacturers, FDA/CVM, USDA/ Research, Education, and Extension, universities, State Agricultural Experiment Stations and veterinary medical colleges throughout the country.

The project has received off the top funding since USDA NIFA funds have not been available for the past 6 years. After efforts to join forces with NRSP4 failed in 2014, the NRSP Review Committee (RC) provided a one year approval with a requirement of leveraging off the top funding and also emphasized the importance of engaging stakeholders in support of the project.

A majority of NRSP-RC members felt that the committee did not demonstrate “new” leveraged funds, as required, and, rather, only did a better job of reporting funds that already existed (based on explanations provided in the proposal). In addition, the RC expressed concern that, even with NRSP funding, there would not be sufficient funds to make the program effective or impactful. Finally, there was concern about a lack of stakeholder involvement.

Thus, by a **7-1 vote, the committee approved a recommendation to reject the proposal and budget.**

Assuming the recommendation is upheld at the Experiment Station Section Meeting in September, NRSP7 will receive 1-year of funding at the current level to phase out activities.

Challenges

- New Minor Use Animal Drugs have been approved at a rate of 1.6/yr. during the 32 years of the program and 52 applications have been made.
- The cost of the program to provide information to support a single label claim has risen to approximately \$3.1 million. At the current funding level approval of a single drug would require 4-5 years.
- There are currently six active projects.

- There is little or no *organized* stakeholder involvement (i.e., an advisory committee) in identifying priorities.
- The program has struggled to remain in existence.
- The program has been unable to garner broad stakeholder support.

Additional Comments:

The NRSP-RC feels that this is an important effort but it needs to have more structure and guidance. This would commence with a retreat of the administrative advisors and other principals at a central location. This meeting would address organizational shortcomings and develop further approaches to codify the program.

A second meeting would bring together stakeholders including the drug industry, producers, USDA, with the aim of directly identifying problems, address funding needs and creating an Advisory Committee.

Several NRSP-RC members are interested in working with the committee to build support for the program to a level that would truly make it effective and impactful.

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Item 7.1: Nominations Committee, FY2016 Officers List

Action requested: None, for information only

**NORTH CENTRAL REGIONAL ASSOCIATION OF
STATE AGRICULTURAL EXPERIMENT STATION DIRECTORS**

FY2016 Officers and Committee Members

(Fiscal Year 2016 begins **October 1, 2015**)

Last Updated: 6/30/2015

Officers:

D. Hamernik, NE, NCRA Chair (dhamernik2@unl.edu)

A. Clutter, NE, Chair Elect (aclutter2@unl.edu)

Executive Committee:

D. Hamernik, NE, NCRA Chair (dhamernik2@unl.edu)

A. Clutter, NE, Chair Elect (aclutter2@unl.edu)

J. Colletti, IA, MRC Chair (colletti@iastate.edu)

E. Minton, KS, Past Chair (eminton@ksu.edu)

J. Jacobsen, NCRA, Exec. Vice Chair (Perm) (anr.jjacobsn@anr.msu.edu)

Multistate Research Committee (3-year term):

J. Colletti, IA, MRC Chair (16) (colletti@iastate.edu)

R. Lindroth, WI, (14-17) (lindroth@wisc.edu)

N. Merchen, IL, (15-18) (nmerchen@illinois.edu)

G. Cuomo, MN, (16-19) (cuomogj@umn.edu)

J. Jacobsen, Ex-Officio (jjacobsn@msu.edu)

Resolutions Committee (3-year term):

M. Linit, MO, (15-18) (linit@missouri.edu)

Nominating Committee (2-year term):

E. Minton, KS (15-17) (eminton@ksu.edu)

Committee on Legislation and Policy

S. Slack, OH (Effective 7/2013) (Oardc@osu.edu)

J. Jacobsen, Ex-Officio (jjacobsn@anr.msu.edu)

NRSP Review Committee Representative (4-year term):

D. Buhler, MI (14-18) (buhler@anr.msu.edu)

ESCOP (3-year term):

D. Hamernik, NE, NCRA Chair (14-17) (dhamernik2@unl.edu)

E. Minton, KS, Past Chair (13-16) (eminton@ksu.edu)

J. Jacobsen, NCRA (Perm Alt) (jjacobsn@anr.msu.edu)

ESCOP Executive Committee:

D. Hamernik, NE, NCRA Chair (16) (dhamernik2@unl.edu)
J. Jacobsen, NCRA (Perm Alt) (jjacobsn@msu.edu)

ESCOP Chair's Advisory Committee:

J. Jacobsen, NCRA (Perm Alt) (jjacobsn@anr.msu.edu)

ESCOP Budget and Legislative Committee:

J. E. Minton, KS (eminton@ksu.edu)

K. Plaut, IN (kplaut@purdue.edu)

ESCOP Communications and Marketing Committee:

W. Wintersteen, IA (agdean@iastate.edu)

D. Scholl, SD, (daniel.scholl@sdstate.edu)

ESCOP Science and Technology Committee:

J. Colletti, IA, (colletti@iastate.edu)

D. Hamernik, NE, (dhamernik2@unl.edu)

J. Jacobsen, NCRA (Perm Alt; Exec Vice Chair) (jjacobsn@anr.msu.edu)

ESCOP Science and Technology Committee Social Science Sub-Committee (3-year term):

Abigail Borron, IN (13) (aborron@purdue.edu) - Ag Communications
Scott Loveridge, MI (13) (loverid2@anr.msu.edu) – Ag Econ (J. Colletti will replace when Scott steps down)

Mike Retallick, IA (13) (msr@iastate.edu) – Ag Education

Soyeon Shim, WI (13) (sshim7@wisc.edu) – Human Sciences

Linda Lobao, OH (14) (lobao.1@osu.edu)– Rural Sociology

ESCOP NIMSS Oversight Committee/NRSP1:

J. Colletti, IA (colletti@iastate.edu)

J. Jacobsen, NCRA (jjacobsn@anr.msu.edu)

Other Appointments

North Central Rural Development Center Board (4-year term):

D. Buhler, MI (perm, MSU rep), (buhler@msu.edu)

N. Merchen, IL, (14-16) (nmerchen@illinois.edu)

CY Wang, SD, (14-16) (cy.wang@sdstate.edu)

North Central Bioeconomy Consortium

NCBEC Vice President, J. Colletti, IA (colletti@iastate.edu)

North Central Regional Aquaculture Center

NCRA Representative, E. Minton, KS (eminton@ksu.edu)

Item 7.3: Science and Technology Committee Agenda Brief

Presenter: Joe Colletti, Jeff Jacobsen

Action requested: None, for information only.

1. NAS AFRI Review

The ESCOP Science and Technology Committee reviewed the NRC Report on *Spurring Innovation in Food and Agriculture: A Review of the USDA Agriculture and Food Research Initiative (AFRI)*. In addition, the AFRI webinar slides and the NIFA response to the NRC Report served as additional sources of perspectives and information. In general, S&T supports the recommendations and offers additional emphasis in several key areas as a mechanism to further enhance and improve the impact of mission-oriented agricultural and natural resources research. Additional details of our deliberations can be found at: <http://escop.ncsu.edu/ViewCommittees.cfm?comid=5>

The overview of key elements from the S&T discussions are:

- The NRC Review provided NIFA and the system with an initial opportunity to review, adjust and monitor AFRI programs across the initial years following its formation and implementation. We support the review process and encourage on-going engagement with NIFA to improve its programs through program and process changes. S&T encourages continued monitoring of NIFA implementation strategies and future reviews as the performance period of many initiatives is fully reached.

SUMMARY: S&T will monitor advancements over time. The ESCOP Chair and the research EDs could routinely discuss with NIFA leadership.

- All support a unified voice to increase the amount of total funding for AFRI. Many of the recommendations and the legislative intent of programs would then have the opportunity to reach their full potential in enhancing research, Extension and academic programs in agriculture and natural resources.

SUMMARY: We encourage the continued efforts to communicate and align the various COPS initiatives through their respective B&L committees, BAC and PBD. These are in conjunction with the Communication and Marketing as well as advocacy efforts through Cornerstone Government Affairs.

- We support the recommendations regarding simplification of the AFRI structure through prioritization of inquiry-driven and mission-driven approaches across priority areas, reducing or eliminating the Challenge Area approaches, careful and comprehensive review of CAP grants following their completion, support the reduction in CAP grant awards, improved consistency in program priorities across time and careful evaluation of grant application metrics.

SUMMARY: NIFA should be continually encouraged to review and implement the ESS Science Roadmap in their program priorities within and across federal agencies.

- S&T strongly encourages NIFA to provide leadership with programs that leverage initiatives and funding across federal agencies relevant to AFRI. On-going discussion with ESS, NIFA leadership and NPLs should occur on a routine basis. We also strongly support the creation of an AFRI Scientific Advisory Board or other appropriate mechanism to secure additional input to design relevant and high impact AFRI programs.

ACTION: ESS (and the other sections) should create a mechanism to integrate multiple agency initiatives. Alternatively, this could be added as a charge to the two B&L committees? S&T strongly supports the creation of a scientific advisory group with key faculty leaders. Note: Federal rules may prohibit this explicitly as an advisory group as it is not authorized, yet other mechanisms could be used. ESS leadership should have on-going discussion on this opportunity.

2. 2015 National Multistate Research Award

The Science and Technology committee received four nominations for the National Multistate Research Award this year:

- NC140: Improving Economic and Environmental Sustainability in Tree-Fruit Production Through Changes in Rootstock Use
- NE1201: Mycobacterial Diseases of Animals
- S1049: Integrated Management of Pecan Arthropod Pests in the Southern U.S.
- W3122: Beneficial and Adverse Effects of Natural, Bioactive Dietary Chemicals on Human Health and Food Safety

The Science and Technology Committee selected **NC140** as this year's winner and this recommendation was approved by majority vote of the ESCOP Executive Committee. We received back 8 out of 10 possible votes; 7 were for approval, 1 for disapproval.

The 2016 National Multistate Research Award call for nominations document (below) was updated to reflect current practices and will be distributed nationally this fall, following the 2015 ESS/AES/ARD meeting and Workshop.

3. National Multistate Research Award – 2016 Call for Nominations

2016 Experiment Station Section Award for Excellence in Multistate Research (updated June 2015)

Purpose

The fundamental mandate of the Multistate Research authority allows State Agricultural Experiment Stations (SAES) to *interdependently* collaborate in projects that two or more states share as a priority, but for which no one state could address singularly. This is a very high standard for any research project, and has become a hallmark of the Multistate Research Program's management objectives.

The Multistate Research authority allows other non-SAES partners to join in these project-based collaborations. Thus, many multistate projects include extension specialists as members as well as Agricultural Research Service or Forest Service research scientists. In addition, many projects have private sector participants. Moreover, the majority of multistate projects have participants

from more than a single region, with many having representation from all regions such that they are national in scope.

To many, the Multistate Research Program is one of the "best kept secrets" of the Land-grant University System.

The purpose of this Experiment Station Section Excellence in Multistate Research Award program is to annually recognize those scientists who are conducting exemplary multistate activities and enhance the visibility of the multistate program. A recipient Multistate Project will be selected from the pool of nominees submitted by the five regional research associations (NCRA, NERA, SAAESD, WAAESD, and ARD), and deemed by the ESCOP Science and Technology Committee to exhibit sustained, meritorious and exceptional multistate activities. The ESCOP Executive Committee will provide final approval.

Award and Presentation

The national winning project will be recognized by the Experiment Station Committee on Organization and Policy (ESCOP) Chair and USDA/NIFA Administrator during the Awards Program held at the APLU Annual Meeting. Each of the regional award winning projects will also be included in the awards brochure by project number and title, technical committee chair, administrative advisor and participating institutions. This will be created by the Impact Writer and submitted to APLU. The title of the national winning project will be added to a plaque located at the USDA Waterfront Centre.

For the past several years, the Experiment Station Directors have approved a monetary recognition of \$15,000 of Hatch Multistate Research Fund (MRF) for the Excellence in Multistate Research Award winner. Up to \$5,000 has been available to cover travel for two members of the recipient project (the Administrative Advisor and Chair or their designees), to attend the awards ceremony at the APLU annual conference. The remaining \$10,000, and any unused travel funds, have been available to support activities which enhance and contribute to the research and/or outreach objectives of that multistate project, consistent with the appropriate use of Hatch MRF. Use of these funds is a project committee decision made in conjunction with its Administrative Advisor.

Eligibility

Any current Multistate Project listed in the NIMSS ([insert new NIMSS URL](#)) is eligible for consideration for an Excellence in Multistate Research Award.

Basis for Nomination

Each of the five regional research associations may nominate one Multistate Project chosen from the entire national portfolio of active projects. Nominations shall be made to the Chair of the respective regional Multistate Review Committee (MRC) via the regional Executive Director's office. The documentation for this type of nomination should be sufficient to allow the review committee members to evaluate the Project according to the criteria listed below.

Criteria and Evaluation

Regional selection of multistate teams for an Award for Excellence will be based on panel evaluations of nominations that demonstrate: high standards of scientific quality; research relevance to a regional priority; multistate collaboration on the problem's solution; and professional leadership in the conduct of the project. All nominated projects shall be evaluated using the same criteria including, in descending order of importance, the Project's: accomplishments indicated by outputs, outcomes and impacts; added-value and synergistic advantages from the Project's interdependency; degree of institutional participation (SAES and others); extent of multi-disciplinary activity; amount of integrated activities (multi-functional); and evidence of additional leveraged funding to further the Project goals.

Selection Process

The ESCOP Science and Technology Committee will serve as the review panel and will select from among the regional nominees a national winner in time for public announcement and award presentation at the APLU Annual Meeting each year. All nominated projects shall be evaluated using the same criteria, as listed above.

Timeline

- October – Announcement sent to Directors, Administrative Advisors and NIMSS participants by ESCOP Chair
- February 28 – Nominations due at Offices of the Executive Directors
- March – Nominations reviewed by regional multistate research review or multistate research collaboration committees and recommendations submitted to regional associations
- March/April – Regional associations approve regional nominations at Spring meetings
- May - Regional associations review, edit and finalize their nomination prior to the final submission
- May 30 – Associations submit final regional nominations to ESCOP Science and Technology Committee
- June – ESCOP Science and Technology Committee reviews regional nominations and submits recommendation for national winner to ESCOP Executive Committee
- June/July – ESCOP Executive Committee selects national winner
- July – National winner submitted to APLU
- September – National winner announced at ESS meeting
- November – Award made at APLU meeting

Nomination Format

A nomination should be a very concise statement. It should include:

Nominating Region: _____

Nominator: _____ **E-mail:** _____

Project or Committee Number and Title: _____

Technical Committee Chair: _____ **E-mail:** _____

Administrative Advisor: _____ **E-mail:** _____

Summary of Significant Accomplishment(s) (noting the following):

- The issue, problem or situation addressed by the project or committee;
- The project or committee's objectives;
- The outcome(s) of the research;
- The impacts of the project or activity (actual or anticipated);
- The extent of links to extension that have been formed; and
- Any additional and relevant partnerships, associations or collaborations that deserve mention.

List of Participating Institutions: Add as an appendix

Nominations will be **no more than 3 single spaced pages** (Times Roman 12 point and one inch margins) plus a 1 page Appendix listing Participating Institutions and units for a total of 4 pages. Regions may utilize other information in selecting their nominee. The final regional nomination should be submitted by email to the Office of the regional Executive Director, by **c.o.b. February 28, 2016**:

Chris Hamilton, North Central <christina.hamilton@wisc.edu>
Rubie Mize, Northeast <rgmize@aesop.rutgers.edu>
Donna Pearce, South <donna_pearce@ncsu.edu>
Sarah Lupis, West <sarah.lupis@colostate.edu>
Dr. Carolyn Brooks, ARD-1890's <cbbrooks@umes.edu>

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Item 7.3: NC AES Compiled Feedback on 2016 POW Panel Recommendations

As of July 14, 2015

C. Hamilton

State	Contact Person	Bullet #	Comments
OH	Steve Slack, OARDC Director; Bob Oyer	1	(Note: David Jackson addressed OH's comments via email to Steve on 7/1/2015) It is not clear whether or not a distinction is being made between the POW software and REEport, which are two distinct systems. The POW software works well in our experience; however, it seems that multiple institutions are experiencing REEport issues. Formatting is a concern. Moving away from the POW software to some consolidated and improved Hatch reporting thru the REEport tool would certainly be beneficial to us if that would allow for both reporting requirements to be met through one set of data preparation and submission.
		3	POW software already allows and is structured to support a 5-yr rolling plan and we support continuation.
		5	Seems to be directed at more specific reporting, which we would also support.
		6	We support direct utilization of the National Impact Database (NID) and would support inclusion of a hyperlink between NID and plans of work that would enable cross-reference without the need to repeat in multiple reports.
		9	We agree, however, want to reinforce our support here.
		12	NIFA already sends representatives to this annual conference and, additionally, holds quarterly webinars that allow for questions. We support continuation of both and find the annual meeting

			and webinars useful.
		15	We prefer that McIntire-Stennis not be brought into these conversations. The McIntire-Stennis reporting (Pgm of Research) is already handled via a panel in REEport (simple process). We just prefer omitting any conversation that might encourage USDA to request additional data or expand reporting requirements.
IA	Joe Colletti/Cathy Good		<p>Joe, I believe the Panel of Experts succinctly captured most if not all of our issues, focusing on simplifying and streamlining the process, and I like the direction they are taking. It really is a pass/fail system, with no added benefit for exceeding the minimum requirements.</p> <p>My only feedback would be that if NIFA's response is that much of this is not doable in the near term (which is likely, in my opinion), to emphasize that the POW and annual report be reduced to the bare minimum needed to meet requirements. There could be some phasing in of a new format.</p> <p>Suggestions:</p> <ul style="list-style-type: none"> · POW: <ul style="list-style-type: none"> o omit state defined outputs and outcomes o reduce each planned program to a 1-page summary <p>Annual Report:</p> <ul style="list-style-type: none"> o include (either on an ad hoc basis or as an annual measure, as determined by the state)

			<p>appropriate significant outcomes for the year</p> <ul style="list-style-type: none"> o if NIFA has a number of outputs they specifically would like us to report on for purposes of aggregating data (in addition to extension contacts, patents, and peer-reviewed publications), then make them part of the annual report and omit state-defined outputs. o if NIFA has a number of outcomes they specifically would like us to report on for purposes of aggregating data, they should let us know, although these still need to be voluntary reporting.
MO	Marc Linit	9	<p>“In general, the new guidelines appear to be an improvement. “</p> <p>“It sounds like output data, that we would have included in the Annual Report of Accomplishments, will no longer be collected in that manner. Instead, output measures will be collected at the station project level, and then can be rolled up for aggregate reports. This seems like a much better way to handle it than the current Annual report of accomplishment method.</p> <p>My only comment would be that based on the information given, it appears to be a good idea!”</p>
WI	Rick Lindroth	NA	Supportive of recommendations

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Travel/Meeting Participation Funding

Project Renewals and Programmatic Funding:

Supplemental Research Funding
Enhanced Research Funding

For Hatch-Multistate Projects that started on October 1, 2014 (re-application) or start on October 1, 2015 (new application)

DESCRIPTION: The Agricultural Research Division (ARD) / Nebraska Agricultural Experiment Station (NEAES) invites faculty to participate in Multistate (regional) Research Projects that benefit Nebraska and its citizens. [Multistate projects are similar to Hatch-regular projects, but involve a team of investigators associated with several State Agricultural Experiment Stations working together to solve complex scientific problems of regional or national interest.]

Travel/Meeting Participation Funding: The NEAES will generally support reasonable travel expenses for one ARD-affiliated UNL investigator to the annual meeting of any Multistate Research Project, National Research Support Project, Coordinating Committee, Education/Extension and Research Activity, Development Committee, or Advisory Committee (Dept. Head Meetings). Faculty must be official members of the Committee (Listed in Appendix E) and the "Official" [voting] representative; we will consider allocating funds for multiple investigators or those without ARD appointments depending upon their participation level and available resources. Once an annual meeting is officially announced, PIs should follow the standard travel authorization procedures.

Project Renewals and Programmatic Funding: Most Multistate Projects (NC, NE, S, or W -xxx) are governed by a five-year plan of work approved by the region and USDA. Certain other projects-types (500-Series, etc.) may have shorter time-frames. New master-project outlines, within the North Central Region, are due to the regional office for review by mid-December with a potential start-date the following October (other regions have slightly different review schedules, but most projects start and end with the federal fiscal year). If ARD investigators wish to receive programmatic funds during the approved project funding cycle (usually 5-years) *in addition to travel funding*, they must submit a "Funded Participant Proposal" by January 31st of the year in which the new project may be approved (**applicants may resubmit, or submit for the first time, a new or revised proposal during the first year of a new multistate project**). There are two funding programs to which PIs may apply:

- Supplemental Hatch-Multistate Funding Program
- Enhanced Hatch-Multistate Research Funding Program

The **Supplemental Funding Program** is designed to complement other funding available to the PI. If the Funded Participant Proposal is approved for supplemental funding, each ARD approved PI will receive up to a \$10,000/year allocation to partially support their research activities associated with the approved multistate effort. Multiple PIs on a single multistate project can submit one proposal and work together as a team to accomplish the relevant goals outlined in the master proposal (each receiving up to \$10,000/yr). Alternatively and especially in cases where PIs are working on different objectives and different areas of science, we will accept individual (or small group) proposals for the same multistate project. Annual reports are required; the funds provided are intended to supplement other sources of funding that the PI (or groups of PIs) has obtained to support their overall research program in areas linked to the multistate effort. If a PI or group of PIs does not have additional sources of support for the programmatic area associated with a given multistate project, Supplemental Funding is unlikely to be granted; those PIs should apply for Enhanced Research Funding.

The **Enhanced Research Funding Program** provides an opportunity for a single PI or a team of PIs to request additional funds to facilitate making a more significant impact on the research area(s) being investigated by the multistate group. PIs may request any amount, up to \$100,000/year per multistate project. Projects most likely to receive funding from this program would be those very strongly linked to Nebraska citizen's vital agricultural, natural resource, family, or nutritional interests. Funded projects from this sub-program are likely to **either be**:

- In research areas for which there are few other federal, foundation or Industry research funds available; **or**
- In research areas for which additional investment would enable investigators to leverage these funds to obtain significant extramural funding.

Given the nature and purpose of Hatch funding, all things being equal, the NEAES is more likely to fund areas of science vital to Nebraska for which there are not significant other available funding opportunities.

INTENT: Funds received from either program must enable significant research productivity and impact. *Supplemental Funds* are designed to complement existing external or self-generated funding and provide relatively flexible resources that facilitate overall programmatic impact. *Supplemental Funds* are NOT designed to serve as the sole support for any program. *Enhanced Funding* is designed to enable significant impact and productivity regardless of other available funding sources.

ELIGIBILITY: The Project Director (PD) must have a tenured or tenure-track appointment with ARD; those with adjunct appointments or those with Research Professor or Professor of Practice (assistant, associate or full) titles are also eligible if they have been previously grant active and such grants or proposals have been recorded with a PCS code of Research and routed via IANR within UNL's NUgrant system. Given the Nebraska Agricultural Experiment Station's statewide mission, in rare cases NEAES may consider funding a University of Nebraska (system) PI that does not receive direct salary support from the Institute of Agriculture and Natural Resources. Co-PDs and collaborators can be affiliated with any University of Nebraska campus, or be employed outside the University of Nebraska system. Funding for collaborators employed outside the University of Nebraska system, however, will be limited to invoiceable services.

SUBMISSION INSTRUCTIONS AND APPLICATION FORMAT:

Applications for these awards will be accepted **ONLY** via NUgrant (<http://nugrant.unl.edu>). *Paper or emailed applications will not be accepted.* If you are a first-time user of NUgrant you can log-in using you're my.UNL username and password. To start your application, after login, click "[add new]" next to the "Internal Competitions" link.

Deadlines and Expectations*:

- Travel/participant funding: PIs must be official members of the Multistate Committee and should follow the standard travel authorization procedures. Contact the NEAES Office for account numbers and authorization well before the scheduled annual meeting.
- Any faculty member anticipating participation in a new multistate project must submit either a *Supplemental Research Funding* proposal or an *Enhanced Research Funding Proposal* if they wish to receive programmatic funds during the approved project funding cycle. These applications are due by January 31st of the year the master project is scheduled to start (e.g., Jan. 31, 2015 due date for projects starting Oct. 1st 2015). Regardless of previous funding allocations, the maximum allocation (if awarded) will be \$10,000 per PI per year for those receiving *Supplemental Funding*. Up to \$100,000 (per proposal per year) is available for those applying for *Enhanced Research Funding*. PIs that choose to seek *Enhanced Research Funding* will be automatically considered for *Supplemental Funding* if their proposal is unsuccessful in the *Enhanced Funding Program*. **Application should be for the full (usually 5-year) period of the master project.** Revised or new applications for projects that started on October 1, 2014 should be for the remaining project period starting October 1, 2015 (usually 4-years). Applications will not be considered for projects that started prior to October 1, 2014.

Information required as part of the electronic NUgrant application:

1. **Principal Investigator (project director) and CV/Biosketch** (NUgrant online form). Two-page CV should be in the PDF file format.
2. **Other Investigators** (NUgrant online form). List all other Co-Investigators. Two-page CV should be in the PDF file format.
3. **Key Personnel.** List all other essential project participants.
4. **Project Title, Start/End Dates, Support, Field, and Compliance/Export Control** (NUgrant online form). Project title should include the multistate (master) project number. Start and End dates should match those of the master project (typically October 1, XXXX – September 30, XXXX). **An "other support" entry is essential** if Supplemental Funding is being requested or if those seeking Enhanced Funding wish to be eligible for Supplemental Funding if their Enhanced application is not funded.
5. **Abstract / Non-Technical Summary** (NUgrant online form) Describe the situation that creates a need for this project as well as the purpose or rationale for the project. Also include general statements describing the methods to be used, the expected outcomes/impacts, and the anticipated benefits. Provide information at a level that most citizens (legislative and other public audiences) can understand.

6. **5-page proposal** (attached as a PDF file) that includes sufficient detail to convince reviewers of the project's scientific merit consistent with the requirements of the program area and **written in language understandable to scientifically trained non-specialists**. The proposal should also include information to demonstrate to reviewers that the proposed work is important/relevant to Nebraska. The proposal must include the following elements:

a. **Introduction - Goals/Objectives/Expected Outputs**

- Provide background/rationale for project, including its significance.
- List the master-project's overall longer-term goals and shorter-term objectives; list your specific contribution to those objectives.

b. **Proposed Plan - Objectives and Methods**

- Describe project goals and objectives
- Describe the methodology proposed to achieve the project goals
- Describe expected outcomes.
- Describe the relevance and importance of the work to Nebraska (citizens/businesses/farmers).
- Identify how your project will leverage the expertise of and/or data from other multistate project members.
- Identify specific research that NEAES funds will target and clearly state:

For Supplemental Research Funding:

- *The source and programmatic objectives of all related existing funding for which NEAES funding will help supplement. Each PI must have some source of related funding to be eligible. Those with the capacity for self-generation of research dollars (farm sales) should estimate current and 2-years of prior useable income.*

For Enhanced Research Funding:

- *The relative availability of external funding (those seeking enhancement funds based on lack of funding availability should highlight that fact; those seeking funding base on the potential to leverage our funding for significant external funding should be very specific regarding funding source and program).*
- *[If funding is not awarded at any level for this program, PIs are automatically considered for Supplemental Funding...and to be competitive under that program each PI must have existing resources. Therefore, all applications should include the source and programmatic objectives of all related existing funding for which our funding will help supplement (if Enhanced funding is not awarded). Those with the capacity for self-generation of research dollars (farm sales) should estimate current and 2-years of prior useable income.]*

c. **Previous Impact**

- PIs with previous Hatch-multistate allocations should outline outputs (publications) and impact (change in situation, knowledge and/or behavior) their previous efforts have had on Nebraska and the region.
- Those not having received funding allocations need not complete this section.

d. **Anticipated Impact**

- Describe what will be different (change in situation, behavior and/or knowledge) if this project is successful.

References are included in the 5-page project description limit. Type size must be 10 points or larger. Margins must be at least 1 inch on all four sides and line spacing should not exceed 6 lines of text within a vertical space of 1 inch. The file must be in the PDF file format.

7. **Project Budget and Justification** (NUgrant online forms): Budget and justification sections should be prepared to cover the total amount requested for the entire project period. Seek assistance from your grant specialist regarding allowable expenditures of Hatch funds (for example, Hatch funding can't be used to pay for tuition remission).
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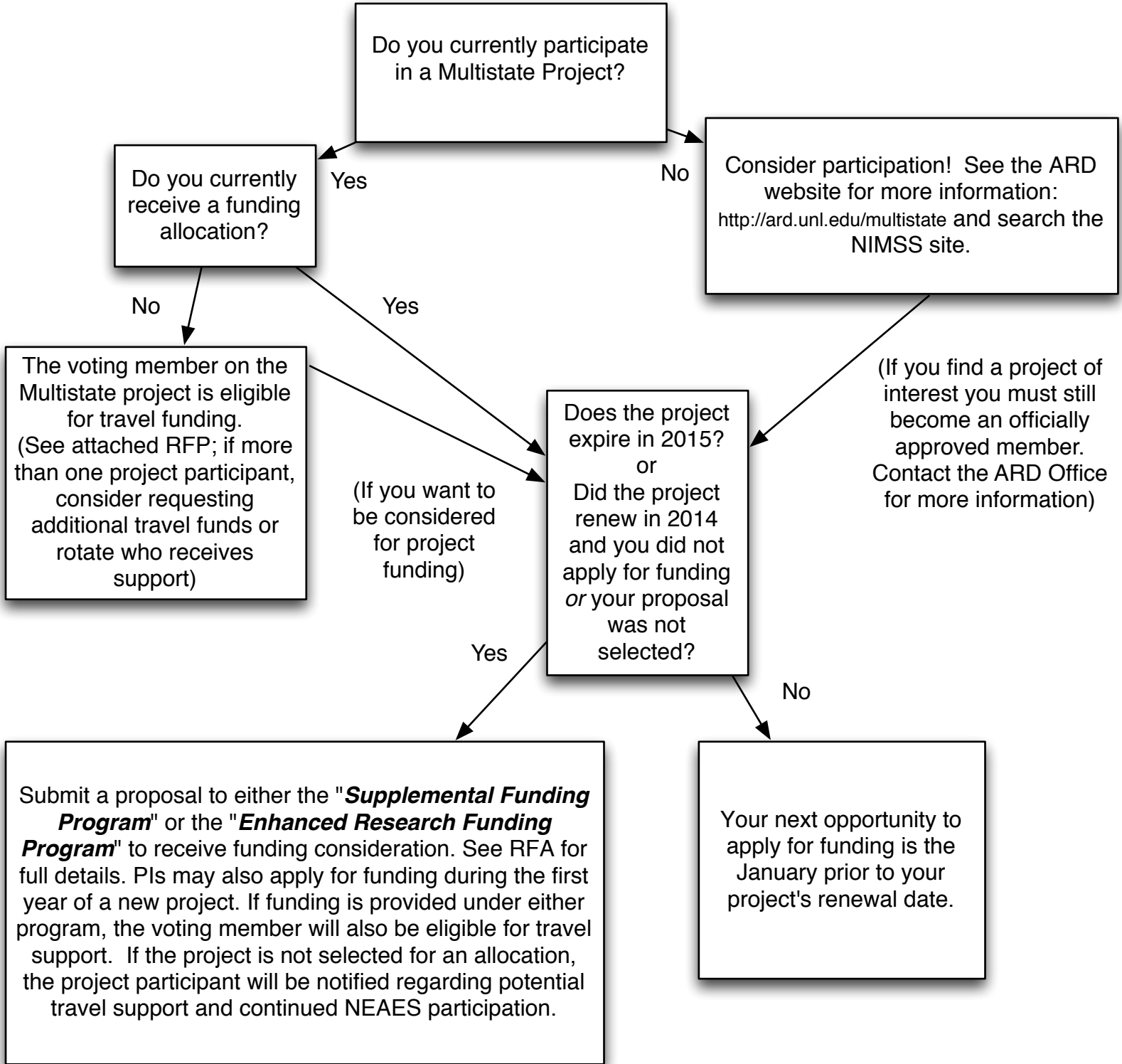
Additional Notes:

Failure to follow submission instructions or application format rules will result in the proposal being returned without review. Applicants are strongly encouraged to clarify any questions they have, and to seek a third-party review of their application materials.

Proposals will initially be reviewed within the ARD office. Decisions are made on Supplemental Funding Program proposals without external review. Applications received for the Enhanced Funding Program are triaged by the ARD Deans; PIs will be notified by late spring if their applications are still under consideration. External reviewer names will be solicited from PIs for these applications, and PIs will also be asked if they would like their application reviewed under a Non-Disclosure Agreement. Upon receipt of external scientific reviews, the NEAES Director and Associate Directors will make funding decisions. The Directors are federally authorized to approve participation in and to make funding allocation decisions on Hatch-multistate projects. This proposal mechanism (RFA) is our selected method to inform the Director's decisions.

If awarded, the Lead PI will be required to enter the project outline into the USDA REEport database. Instructions for this process will be sent by e-mail after an award notification has been sent. Regardless of our funding decision, in order to actually receive support the master multistate project must receive USDA approval and the funded multistate contributing projects (this application) MUST ALSO BE approved by USDA before funding is released. If any of the following does not occur, you will not receive funding: a) your application is not approved under this competition, b) your application, although approved by NEAES, is not approved by USDA, c) USDA does not provide sufficient capacity funding for multistate research. The format of this RFA is designed to minimize the additional work to initiate and seek approval from USDA.

This is a complex program. We strongly urge you clarify any questions you have by calling (402-472-2045) or emailing the ARD office.





Minnesota Innovation Partnerships (MN-IP) Create

MN-IP Create – for companies interested in creating new IP using sponsored research at the U of M

The following options for establishing intellectual property rights are available to for-profit entities interested in sponsoring research at the university. Option A was created to remove uncertainty and financial concerns that surround industry-funded research projects in a university setting.

OPTION A¹

Pre-pay 10% of sponsored research agreement (or \$15,000 whichever is greater)^{2,3,4} for exclusive, worldwide rights to all inventions arising from the research project with the following pre-set terms:

- Sponsor manages all patenting activities and pays all costs associated with patent prosecution (collaborating with the university on patent claims)
- Sponsor pays 1% royalties on net sales when annual sales using IP exceed \$20 million
- No cap on royalties unless the invention improves on as pre-existing product/processes (cap of \$5 million)
- No annual minimums or other technology commercialization fees
- No time limits or milestones⁵
- Sponsor is free to sublicense/cross license
- University-owned background IP is not included, but requests for exceptions will be considered
- Sponsor retains rights, free of charge, to use data arising from the research project

OPTION B

- No upfront fees
- No pre-set royalties
- Sponsor and university negotiate a royalty-bearing license once the IP is developed
- Sponsor manages and directs all patenting activities and pays all costs associated with patent prosecution (collaborating with the university on patent claims)

Notes:

1. Option A is not available for research awards or sub-awards/subcontracts from government, non-profit, or other types of non-commercial sponsors, consortia agreements or awards for public service or testing.
2. This fee is calculated based on the entire project budget including standard university overhead fees that must be paid at the full federal research F&A rate.
3. The fee is applied based on funds obligated in the agreement. If the sponsor pays the \$15,000 because the initial obligation of funds is <\$150,000, they will not be charged the 10% on future obligations until after the \$150,000 threshold in obligated funds is reached.
4. The fee is due within 30 days of billing. Failure to pay will result in the conversion from Option A to Option B.
5. If federal funding is used in part to develop the IP, the license will be subject to other terms such as performance milestones required to satisfy federal Bayh-Dole obligations.



Minnesota Innovation Partnerships (MN-IP) Try and Buy

MN-IP Try and Buy – for companies interested in licensing existing U of M inventions

The following program is for qualified companies interested in establishing intellectual property rights in existing technology based upon university research, which has previously been protected by the university.

TRY

- Exclusive trial period to explore the technology, the market and perform due diligence
- Single fee for trial period, with fee eliminated for MN operating companies² or \$50,000+ research
- No patent expenses due¹
- Pre-set, published licensing terms if license is executed

BUY (LICENSE)

- Low, published royalty rate, with first \$1 million of product sales royalty-free
- Royalty rates based on industry comparables
- Royalty rate discount for MN operating companies²
- Royalty buy-out option, negotiable prior to first product shipment
- Patent expenses due only when patent is issued¹
- U of M “spin out” companies work with the university on equity terms

Notes:

1. Foreign filing fees are the responsibility of licensee as they occur; countries of filing are at licensee discretion. U.S. fees due only upon patent issuance.
2. Minnesota operating companies include any company with either its:
 - a. Principal place of business located in Minnesota.
 - b. Principal product or service development or manufacturing activities in Minnesota.