From:	Jessica Phillips
To:	undisclosed-recipients:
Subject:	GoToMeeting Invitation - Cool Clean Tech
Date:	Tuesday, September 29, 2009 6:42:35 PM

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1. Here is the link for the oral presentation for Cool Clean Technologies on October 1st, from 11am to 1pm Mountain Daylight Time:
https://www2.gotomeeting.com/join/275951218

Meeting Password: **IBRFOA586**
Meeting ID: 275-951-218

2. Here is the conference call information:

Reviewers and Applicant call in number: **1-877-985-4104**
Pass code: **260 4849**

Reviewers only call in number: **1-877-954-1941**
Pass code: **207 1313**

GoToMeeting®
Online Meetings Made Easy™

Please make sure that you follow the instructions for the meeting you are attending. Multiple conference call in numbers are being used for these oral presentations.

GoTo Meeting and call in instructions for reviewers:

GoTo:

Click on the link provided in this email and download the software for GoTo Meeting AS SOON AS POSSIBLE to verify that it will work on your computer.

If the organizer is not logged in right away, please wait until they have logged in.

Enter the meeting password that was provided in the email.

Enter your name. DO NOT enter an email address. This information can be viewed by everyone logged into the meeting.

Meeting will start.

Conference call information:

Call into the conference call line entitled “Reviewers and Applicant line” that was included in this email. We will use this line for the first 50 minutes of the presentation.

After the presentation, or after 50 minutes have elapsed, please hang up and call the call line entitled “Reviewers only line”. This is where the reviewers will discuss follow-up questions.

After the follow-up questions have been drafted, please hang up and call back into the “Reviewers and Applicant line”. The moderator will then ask the applicant to answer the follow-up questions for the next 30 minutes.

When the 30 minutes are up, please hang up and dial the “Reviewers only line” one last time. This is where you will discuss the presentation.

Reminder: Please do not speak during the applicants two presentations.

From:	C. Wayne Smith
To:	Carol Rhodes
Cc:	David Baltensperger
Subject:	Grad student cost estimates for 2009/10
Date:	Tuesday, September 15, 2009 10:37:38 AM
Attachments:	offer letter supplement for profs Grad Student Costs.xls C. Wayne Smith1.vcf

---

FYI. Attached are the estimated costs associate with graduate stipends that would be borne by grants. If the grant is state dollars then tuition would be paid by OGS but the grant would have to provide these costs otherwise.

Wayne

C. Wayne Smith
Professor and Associate Head
Department of Soil and Crop Sciences
2474 TAMU
Texas A&M University
College Station, TX 77843-2474
979.845.3450
cwsmith@tamu.edu

Grad student cost

PhD

Stipend	Part time ins supp *	Total Stipend	Tuition **	Fees***	Insurance	Fringe	Total
$ 16,000.00	$ 2,400.00	$ 18,400.00	$ 5,322.00	$ 3,500.00	$ 2,406.00	2.5% of stipend $ 460.00	**$ 30,088.00**

MS

Stipend	Part time ins supp *	Total Stipend	Tuition **	Fees***	Insurance	Fringe	
$ 14,000.00	$ 2,400.00	$ 16,400.00	$ 5,322.00	$ 3,500.00	$ 2,406.00	2.5% of stipend $ 410.00	**$ 29,038.00**

*Replaces the 50% reduction in state contribution for < full time employees

** Department mandated

*** Estimates for 2009/2010

From:	Bill Rooney
To:	"Karen L Prihoda"; "Collins, Stephen D"; "dustin borden"
Subject:	Grain Inventory
Date:	Tuesday, August 18, 2009 2:38:00 PM
Attachments:	09CS Grain Xing Inventory.xls 09 Grain Xing Inventory Labels.doc

---

Same as selfing; fieldbook is on the laptop.

bill

Dr. William L. Rooney
Professor, Sorghum Breeding and Genetics
Chair, Plant Release Committee
Texas A&M University
College Station, Texas 77843-2474
979 845 2151

From: Nilesh Dighe
To: Bill Rooney
Subject: Grain panel for NIR
Date: Monday, August 24, 2009 2:47:28 PM
Attachments: 09CSf405 IN Panels 8-24b.xls

Dr. Rooney,

With some assistance from Delroy, I have put together a diverse panel for grain NIR. The panel includes info for some of the grain-related traits that I could gather in the past 3 days. In the notes column, the plots with * are the ones that I scored myself, while the ones with ** had the trait genetics published earlier. I am sure I might have made a few mistakes in scoring, so please correct if you find them. I have left the cells blank for the traits that I couldn't score.

I used plots only from CVT and Elite panel, so please add any other plots that you think must be included in the panel. I would also appreciate if you could go through the list and keep only the ones what you think are important.

Thanks,
Nilesh

From: [redacted]
To: Rooney, Bill
Subject: GRIN list to Puerto Rico 2009
Date: Tuesday, November 03, 2009 8:19:41 AM
Attachments: GRIN list to Puerto Rico 2009.xlsx

Hello Dr. Rooney,

there is the list.

[redacted]

From: Barbara Bracken
To: Nilesh Dighe
Cc: Bill L Rooney
Subject: H1-B--PICK UP NOW!
Date: Thursday, September 17, 2009 10:07:16 AM

Good morning...
I emailed you on 09/11 for you to come sign for your H1-B extension...PLEASE COME PICK IT UP TODAY!

B

Barbara Bracken
Business Coordinator I
Texas A&M Agriculture
Soil & Crop Science Department
2474 TAMU
phone: 979-845-3042
fax: 979-845-0456
e-mail: bbracken@ag.tamu.edu

From: Bill Rooney
To: [redacted]
Subject: Halfway Data
Date: Tuesday, August 11, 2009 9:28:00 PM
Attachments: 2009 HW 8-11.XLS

[redacted]

What I need is flowering date. If you can estimate 5-7 days on either side, that is acceptable.

I would like data on the following tests

BRON
LNOB
HEALTH
FORO
FORH
Sw Hybrid Outstate

Dr. William L. Rooney
Professor, Sorghum Breeding and Genetics
Chair, Plant Release Committee
Texas A&M University
College Station, Texas 77843-2474
979 845 2151

From:	Bridges, Brenda
To:	Fannin, Blair; Edith Chenault
Cc:	Bill Rooney; Juerg Blumenthal; Nael El-Hout; Russell Jessup; Travis Miller; Capareda, Sergio; Ron Lacey; Jeff Gwyn; Zak, Kendra
Subject:	hand-drawn not-to-scale map and directions for Aug 6
Date:	Wednesday, August 05, 2009 2:19:08 PM
Attachments:	Map&Directions.pdf

Blair and Edith,

Attached are driving instructions and a not-to-scale hand-drawn map for the Texas A&M Farm portions of the bioenergy tour on Aug 6.

Brenda Bridges
Program Associate
Texas AgriLife Research Corporate Relations
College Station TX 77843-2583
O: (979)862-7136
C: (979)324-7823
Fax (979)458-2155
http://agbioenergy.tamu.edu

Directions for Bioenergy Initiatives tour at Texas A&M Farm

From Borlaug, turn **right** out of parking lot so you are **heading west** on **Kimbrough**.

Turn **right** onto **Discovery** Drive.

At stop sign, turn **left** onto **University Drive/Highway 60**. Check your odometer.

After ~3 miles, you will see O.D. **Butler Animal Science Complex** on the **left** (you will see flags at the entrance).

From Butler Animal Science Complex, turn **left** onto **Hwy 60** and go ~2 miles. You will cross the Brazos River.

On the **right** is a sorghum field with oil tanks off of a small dirt road. Turn **right** onto the **dirt road just before the small grey building** and park. This is **Site #1**.

Leave Site #1 by turning **right** onto **Hwy 60**, heading west.

After ~0.25 miles, turn **left** onto **Hwy 50**.

After ~1.1 miles, turn **left** onto a **small gravel road** that is just before the pecan orchard.

Very soon you will see cotton on the right (park in front of the cotton field on the right side of the gravel road) and sorghum on the left. This is **Site #2**.

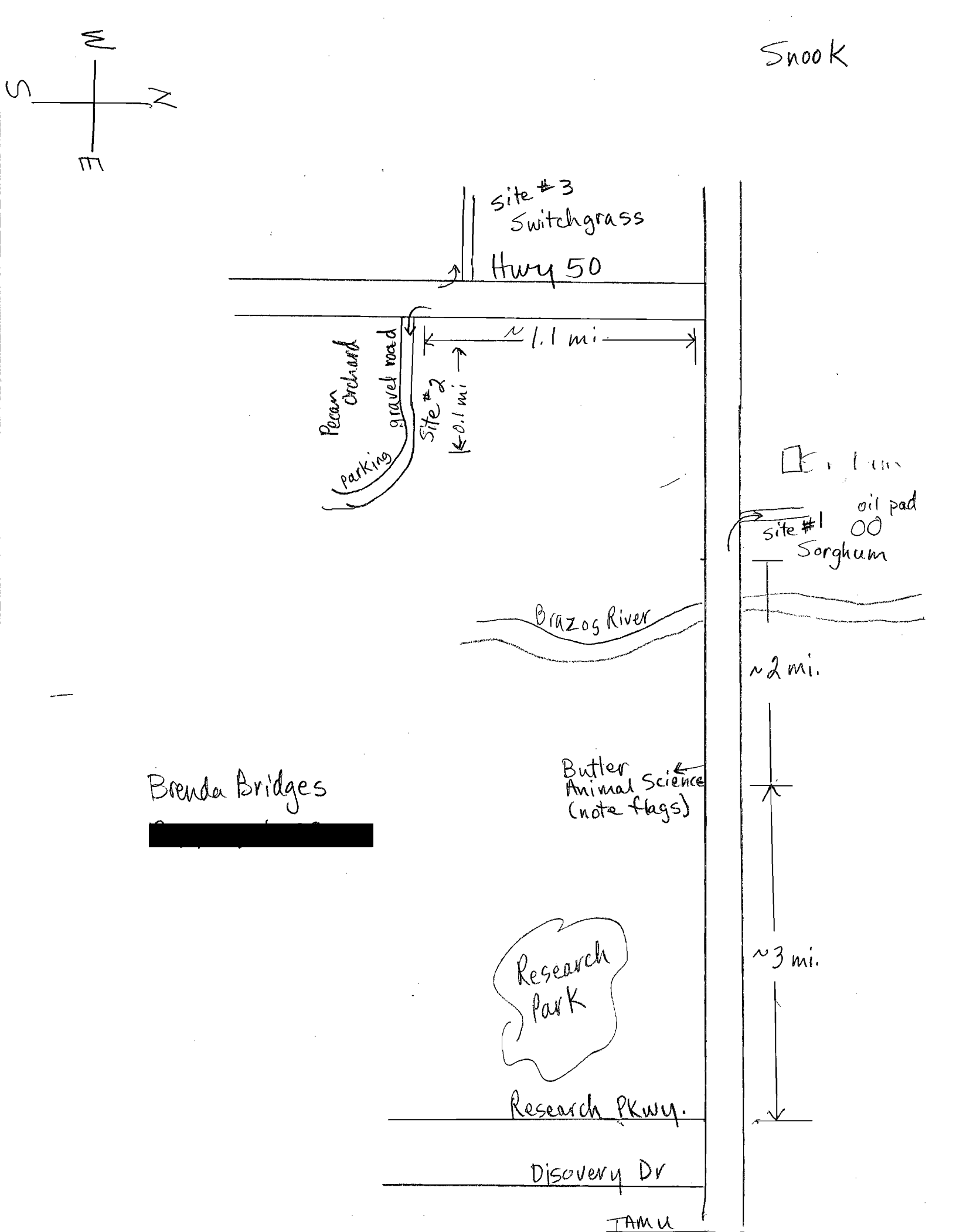
As you leave Site #2, go **north** on the gravel road.

Turn **right** onto **Hwy 50**.

After ~0.25 miles, you will see **Site #3** on the **left side of the road** near the switchgrass plot.

When you leave Site #3, go **north** on **Hwy 50**.

At **Hwy 60** turn **left** and go to Snook for lunch.


E
S
N
W
Snook
site #3
Switchgrass
Hwy 50
~1.1 mi
Pecan Orchard
gravel road
parking
site #2
~0.1 mi
~1.1 mi
oil pad
site #1
Sorghum
Brazos River
~2 mi.
Butler Animal Science (note flags)
Brenda Bridges
[redacted]
Research Park
~3 mi.
Research Pkwy.
Discovery Dr
TAMU

From:	Nilesh Dighe
To:	Delroy Collins
Cc:	[redacted]
Subject:	Help Needed for NIR
Date:	Monday, September 28, 2009 8:42:24 AM
Attachments:	NIR-Sample Processing schedule- Fall 2009.xls

Hi Everyone-

So far this year, we harvested more samples for NIR-based composition analysis than in the past, and we continue to harvest more samples as we round up our 2009 season. Although we started processing the samples early in the season with the student worker help, we are still ways behind our target of processing everything before December, 2009. As most of you have or will be having samples for composition analysis (bioenergy, grain, forage, etc.), it will be really helpful if you can afford 8 hrs/week. I like to split those 8 hrs between grinding (4 hrs) and scanning (4 hrs). For all those who like to help, please fill up the attached time-slot availability sheet and have it back to me by this coming Friday. In case you are not able to afford 8 hrs/week, any amount of help will be appreciated.

Thanks,
Nilesh

Name: _____

Please Block out the time that YOU ARE AVAILABLE for processing composition samples

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00	X				X
8:30	X				X
9:00	X				X
9:30	X				X
10:00	X				X
10:30	X				X
11:00	X				X
11:30	X				X
12:00	X				X
1:00					
1:30					
2:00					
2:30					
3:00					
3:30					
4:00					
4:30					
5:00					
	Monday	Tuesday	Wednesday	Thursday	Friday

From:	Owens, Vance
To:	Doolittle, James
Cc:	Baldwin, Brian; DoKyoung Lee; Owens, Vance; Rooney, William; Voigt, Thomas; Davis, Adam; Funnell-Harris, Deanna; Pedersen, Jeff; Richard, Edward; Rob Mitchell (Rob.Mitchell@ars.usda.gov); Venuto, Brad; Karlen, Doug
Subject:	herbaceous quarterly report
Date:	Thursday, October 22, 2009 11:40:24 AM
Attachments:	RFP-Herbaceous-Qtrly-report-October-2009.docx

Dr. Doolittle:

Attached is the herbaceous group quarterly report for the period 1 July – 30 Sep. 2009. Please let me know if you have any questions or comments.

Thanks,

Vance

Vance Owens
Plant Science Department
South Dakota State University
1110 Rotunda Lane North
244C SNP, Box 2140C
Brookings, SD 57007

Office phone: 1-605-688-6088
Fax: 1-605-688-4452
email: vance.owens@sdstate.edu

Sun Grant-DOE Regional Feedstock Partnership
Herbaceous Biomass Feedstock Development
Quarterly Report

Not for Distribution

Herbaceous Group Lead: V.N. Owens
Project Period: 1 July – 30 September 2009
Overall Objective: Establish and perform replicated field trials of diverse herbaceous biomass feedstocks at different locations for assessing potential expansion of these feedstocks as a bioenergy resource.

Switchgrass: V.N. Owens, South Dakota State University, Switchgrass Coordinator

Collaborators: E. Heaton, IA; J. Fike, VA; D. Bransby, AL; D. Viands, NY; R. Farris, OK; R. Mitchell, NE

Objective: Establish and perform replicated field trials of switchgrass to gather biomass production and sustainability data that documents biomass yield at different regional locations for assessing potential expansion of switchgrass as a bioenergy feedstock resource.

Status: We are in the second year of a five-year study. Approximately 25% of the planned activities have been completed.

Planned activities
Planned activities for the reporting period included monitoring of existing switchgrass stands, preparation for fall harvest, continued upload of location data on the ORNL Sharepoint website, and a meeting of the switchgrass group in Brookings, SD.

Actual Accomplishments

1. **Stand establishment:** Stands were monitored at each site. The replanted AL location failed to establish successfully. Plans are being made to plant again in 2010 in a new location in AL.
2. **Sharepoint:** All collaborators have registered on the sharepoint website and a standardized excel template for switchgrass data upload has been developed and sent to Chris Abernathy at ORNL. Meta data and other data from some sites has been uploaded to sharepoint for this progress report.
3. **Group meeting:** The switchgrass group (OK was unable to attend) met 29-30 Sep. in Brookings, SD. Several items were accomplished including: finalizing the switchgrass data template for upload to Sharepoint, clarifying harvest plans for 2009 including sample collection procedures, detailing submission of samples to INL for possible future chemical characterization, field tours of switchgrass and other biomass plots in the area, discussion of successes/challenges at each location.

4. **Sustainability:** Further sustainability work is being done at the SD location. Water and gas measurements were taken at the SD location during the reporting period.

Explanation of Variance: The AL site was replanted in 2009 but with little success. Discussion for this site at our meeting in Brookings, SD in Sep. focused on replanting in a different location in AL in 2010.

Plans for Next Quarter: Switchgrass will be harvested at most locations during the coming quarter and new data uploaded to Sharepoint. Samples will be submitted to INL for future potential chemical characterization.

Publications / Presentations/Proposals Submitted:
A panel paper including all the species in the herbaceous group was presented by species leads at the World Congress on Industrial Biotechnology and Bioprocessing in Montreal, QC, Canada in July.

Miscanthus: T. Voigt, University of Illinois, Miscanthus Coordinator

Collaborators: Stacy Bonos (NJ), Roch Gaussoin (NE), and David Williams (KY)

Reporting Period: April 1, 2009 – June 30, 2009

Objective: Establish and perform replicated field trials of *Miscanthus* x *giganteus* (*M.* x *g.*) to gather biomass production and sustainability data that documents biomass yield at different regional locations for assessing potential expansion of *M.* x *g.* as a bioenergy feedstock resource.

Status: We are in the second year of a five-year study and in 2009, and less than 25% of the planned activities have been completed.

Planned Activities: Planned activities July - September 2009 included collecting 2nd year *Miscanthus* x *giganteus* growth and morphological data at the five sites (IL, IN, KY, NE, and NJ), controlling weeds in the plots, continuing collecting data in the Sustainability study in IL, and beginning analysis of soil samples collected in 2008. In an ongoing task, we continue to improve the accuracy of MiscanMod, a model used to predict *Miscanthus* x *giganteus* growth and yields in the U.S. as additional data from this study, and other studies becomes available and can be incorporated into the model.

Actual Accomplishments: In 2008, all five sites were planted, fertilizer applied, weeds controlled, soil samples collected, and biomass samples submitted to INL. In April - June 2009, after determining the % survival at each site (Table 1), replanting occurred at the IL and NE sites as needed, fertilizer was applied, and weeds were controlled. The KY and NJ are collecting 2nd year morphology growth data (Table 1). Through June 2009, there appears to be no nitrogen response in any plots in the study (Table 1).

At IL, the Sustainability study has commenced. Soil gas, temperature, and moisture data are being collected from each plot and soil analysis will commence during the October - December period as this year's funding became available in July – September period.

During the July – September period, the PI visited the IL, KY, NE, and NJ sites. All sites are performing well and 2nd year *Miscanthus* x *giganteus* growth and morphological data is being collected (Table 2) at the KY, NE, and NJ sites.

Explanation of Variance: The IN site has dropped out of the study due to poor winter survival at that site and a scheduled personnel change in early 2010; cooperator Zachary Reicher is moving to the University of Nebraska as his spouse has accepted a Department Head position there. A fifth site will be added in 2010, most likely in the Southeastern U.S. where *Miscanthus* x *giganteus* appears to be well adapted. Complete, second-year morphology and growth data is not being collected in 2009 in IL due to the replanting that occurred, however comparative morphological data from Illinois collected in October is shown in Table 3.

Plans for Next Quarter: During the October – December period, plot harvests will take place and growth and morphological data will be analyzed.

At IL, soil gas, temperature, and moisture data will be collected and analyzed for the Sustainability study, and soil analysis will commence.

The Species Leader will speak about the DOE Sun Grant *Miscanthus* x *giganteus* Bioenergy Field Trials in one University of Illinois class and at the University of Kentucky Turfgrass fall seminar.

Publications/Presentations/Proposals Submitted: In July, the Species Leader spoke about the DOE Sun Grant *Miscanthus* x *giganteus* Bioenergy Field Trials at the University of Kentucky Turfgrass Field Day in Lexington, KY and at two presentations in Montreal, one at McGill University and the second at the World Congress on Bioindustry and Biotechnology. In August, the IL plots were displayed at the University of Illinois Energy Farm Open House and the Species Leader hosted a biomass feedstock booth at the Farm Progress Show in Decatur IL.

Table 1. 2008-09 overwinter survival and 2009 morphology data at five sites in the *Miscanthus* x *giganteus* Bioenergy Field Trial.

Site	2008- 09 Survival (%)	Obvious N Response?	Approximate Height (m) July 2009
IL	17	no	1.8 + .75[1]
IN	33	NA	NA
KY	99	no	2.6
NE	79	no	2.2 + .2[1]
NJ	100	no	2.6

[1] At IL and NE, these are the approximate heights of the surviving 2008 plants + the heights of the replanted 2009 plants.

Table 2. Differences in height and tiller number averages of five second year *Miscanthus* x *giganteus* plants in plots receiving different N amounts in Lexington, KY; Mead, NE; and Adelphia, NJ in September 2009.

	0 kg N/ha	60 kg N/ha	120 kg N/ha
Lexington, KY			
Average Height (M)	3.1	3.1	3.1
Average Tiller #	39.1	38.8	36.5
Mead, NE			
Average Height (M)	2.7	2.9	3.0
Average Tiller #	45.5	42.8	45.0
Adelphia, NJ			
Average Height (M)	3.3	3.4	3.3
Average Tiller #	34.3	40.1	40.35

Table 3. Differences in height and tiller averages of five first year and five second year *Miscanthus* x *giganteus* plants in plots receiving different N amounts in Urbana, IL in October 2009.

	0 kg N/ha	**60 kg N/ha**	**120 kg N/ha**
Year 1 Plants			
Average Height (M)	1.6	1.9	1.6
Average Tiller #	14.8	20.2	21.8
Year 2 Plants			
Average Height (M)	3.2	3.7	3.1
Average Tiller #	36.8	28.0	31.6

Energycane: B. Baldwin, Mississippi State University, Energycane Coordinator

Collaborators: Bill Anderson (ARS Tifton GA) Brian Baldwin (MSU Starkville MS), Jimmy Ray Parish (MSU Raymond, MS), E. Charlie Brummer (UGA Athens GA), Ken Gravois (LSU St. Gabriel LA), Juerg Blumenthal (TAM College Station, TX), Ted Wilson (TAM Beaumont, TX), Goro Uehara (UH Waimanalo [Ohau]).

Objective: Establish and perform replicated field trials of energycane to gather biomass production and sustainability data that documents biomass yield at different regional locations for assessing potential expansion of energycane as a bioenergy feedstock resource.

Reporting Period: June 30 to October 1, 2009

Status: (on time)

Task :

1. **Planned Activities***:* Monitor growth characteristics/morphology. Assess field for survival. Apply appropriate management practices to ensure maximum crop growth.

2. **Actual Accomplishments**: The management of the plots has proceeded according to schedule. Plants of all entries are growing well at most sites at the current time. Excessive rainfall at Starkville, MS and St Gabriel LA have set yields (as measured by height) behind.

   The Beaumont site is a year behind on its fields. (See variance).

   Herbicide was applied in the fall and late spring for weed control. Fertilizer was applied according to soil test. Weather data are being logged at research sites. Height measurements have commenced at all sites.

   Material Transfer Agreement and planning for shipments of seedcane to Hawai'i has been finalized. Germplasm has been tested for virus and other pathogens (required before importation to Hawai'i). Testing has been complete. Billets will be cut and shipping is imminent.

3. **Explanation of Variance**:
   Beaumont Site, 1 year delay in field expansion. Hurricane Ike (2008) and accompanying tornados caused severe damage to the Beaumont Station and the seed cane crop. The same hurricane leveled cane at Houma LA. Seed cane and the machinery to open furrows for planting was not available until spring. (Cane is fall planted.)

4. **Plans for Next Quarter**: Height measurements will continue to be made on bi-weekly intervals. Plant heights will continue to be taken. %Brix readings will continue until harvest – November at most sites.

Energycane should be arriving at the Waimanalo Expt. Station, on Oahu. That material will be extensively propagated to establish a replicated field trial there.

Publications / Presentations/Proposals Submitted:

A panel paper including all the species in the herbaceous group was presented by species leads at the World Congress on Industrial Biotechnology and Bioprocessing in Montreal, QC, Canada in July.

Sorghum: W.L. Rooney, Texas A&M University, Sorghum Coordinator

Objective: Establish and perform replicated field trials of energy sorghums to gather biomass production and sustainability data that documents biomass yield at different regional locations for assessing potential expansion of sorghum as a bioenergy feedstock resource.

Planned Activities:

1. Harvest, collect data and biomass samples from the 2009 cropping season.
2. Complete analysis of 2008 data and submit to Oak Ridge National Labs.

Actual Accomplishments:

1. Trials partially completed in most of the locations in the country. The sorghum trial in Corpus Christi, Texas was never planted due to extreme drought throughout 2009. All other locations were planted and grown and data will be collected. At this time, approximately ½ of the locations have been harvested; the remainder should be completed by the end of October.
2. Data collected from 2008 was compiled and submitted to Oak Ridge National Labs. (See attached Table).
3. Samples from 2008 were scanned and prepared for shipment to INL.

Explanation of Variance: Lack of funding is causing problems at some locations. Drought at some locations may reduce yield.

Plans for Next Quarter: Prepare for harvest.

Publications / Presentations/Proposals Submitted:
A panel paper including all the species in the herbaceous group was presented by species leads at the World Congress on Industrial Biotechnology and Bioprocessing in Montreal, QC, Canada in July.

Table 1. 2008 Agronomic performance of different sorghum hybrid across locations.

Location	height	fresh yield		dry yield		Dry	Brix
Entry	cm	MT/ha	ton/ac	MT/ha	ton/ac	Matter	%
Corpus Christi							
22053	167.6	29.5	13.2	15.0	6.7	0.50	.
84G62	147.3	31.4	14.0	13.5	6.0	0.45	.
Graze-N-Bale	254.0	69.9	31.2	23.0	10.3	0.39	.
M81-E	243.8	62.2	27.7	21.3	9.5	0.37	.
Grazeall 3	203.2	35.0	15.6	10.3	4.6	0.39	.
Sugar T	223.5	44.8	20.0	14.4	6.4	0.33	.
lsd	93.3	9.9	4.4	5.6	2.5	0.14	.

College Station							
22053	187.3	28.4	12.7	12.8	5.7	0.52	10.6
84G62	127.0	21.2	9.5	11.0	4.9	0.47	14.0
Graze-N-Bale	273.1	47.2	21.1	29.1	13.0	0.52	12.7
M81-E	241.3	43.8	19.5	23.1	10.3	0.53	13.4
Grazeall 3	200.0	27.0	12.0	13.9	6.2	0.51	15.4
Sugar T	244.5	33.2	14.8	16.0	7.1	0.44	10.7
lsd	36.9	6.6	3.0	6.7	3.0	0.16	7.2
Mississippi							
22053	274.7	22.8	10.2	7.2	3.2	0.31	.
84G62	70.3	11.1	5.0	5.0	2.2	0.45	.
Graze-N-Bale	362.0	41.8	18.6	11.4	5.1	0.27	.
M81-E	262.4	36.3	16.2	10.4	4.6	0.29	.
Grazeall 3	197.5	21.4	9.5	9.6	4.3	0.45	.
Sugar T	255.3	27.3	12.2	8.4	3.8	0.31	.
lsd	31.5	5.2	2.3	2.4	1.1	0.04	.
Kentucky							
22053	.	11.5	8.1	6.2	2.8	0.35	12.9
Graze-N-Bale	.	14.4	6.4	4.5	2.0	0.32	10.8
M81-E	.	21.4	9.5	8.0	3.6	0.38	9.1
Grazeall 3	.	9.1	4.1	4.3	1.9	0.47	11.8
Sugar T	.	6.0	2.7	2.6	1.2	0.43	10.8
lsd	.	12.4	2.0	2.4	1.1	0.03	4.3
North Carolina							
22053	.	38.4	17.1	11.7	5.2	0.31	8.0
Graze-N-Bale	.	55.0	24.5	14.1	6.3	0.26	11.0
M81-E	.	22.9	10.2	7.2	3.2	0.33	17.5
Grazeall 3	.	11.1	4.9	5.1	2.3	0.46	9.8
Sugar T	.	34.4	15.4	10.0	4.5	0.3	7.5
lsd	.	15.7	7.0	3.7	1.6	0.48	4.1
Kansas							
22053	341.9	45.9	20.5	24.7	11.0	0.54	.
Graze-N-Bale	339.9	74.4	33.2	19.5	8.7	0.26	.
Grazeall 3	276.2	37.8	16.9	27.1	12.1	0.71	.
Sugar T	341.2	68.3	30.5	15.7	7.0	0.23	.
lsd	19.9	11.1	4.9	4.8	2.2	0.06	.

Conservation Reserve Program (CRP) Land: D.K. Lee, University of Illinois, CRP Coordinator

Collaborators: Ezra Aberle (ND), Keith Harmoney (KS), Chengci Chen (MT), Carl Jordan (GA), Robert Kallenbach (MO), Gopal Kakani (OK)

Reporting Period: July 1 – September 30, 2009

Objective:
Perform replicated field trials on CRP land to gather biomass production and sustainability data that documents biomass yield at different regional locations for assessing potential of CRP land as a bioenergy feedstock resource

Status: We are in the second year of a five-year study and 35% of planned activities have been completed.

Planned Activities: continue CRP management work from the last year.
ND: Species composition measurement and peak standing crop biomass harvest
KS: Peak standing crop biomass harvest
MT: Biomass sample collection and preparation
GA: End of growing season biomass harvest and soil analyses
MO: Biomass sample collection and preparation and end of growing season biomass harvest
OK: Peak standing crop biomass harvest

Actual Accomplishments:
ND-Warm season mixture:
The peak standing harvest was swathed 9/3/09 and baled 9/6/09.

KS-Warm season mixture:
The peak standing crop harvest for the second year was finished. Combined over both 2008 and 2009 at the peak standing crop harvest during the summer, the addition of 50 lb N/acre was more efficient at providing extra yield per pound of nitrogen added compared to the 100 lb N/acre treatment (9.5 lbs dry matter/lb N, vs. 6.6 lb dry matter/lb N). Dry weight rank sampling was finished in June, and the change in switchgrass and sweetclover composition from 2008 to 2009 for the peak standing crop and the after frost harvest that occurred in 2008. Switchgrass composition was directly related to yield, especially at the peak standing crop harvest in 2008 and 2009. Greater switchgrass composition resulted in greater dry matter yield (r^2=0.70 in 2008, r^2=0.47 in 2009). Sweetclover composition in 2009 decreased the most with peak standing crop summer harvest in 2008 compared to the after frost harvest of 2008, and sweetclover composition declined rapidly with increased fertilizer rates.

MT-Cool season mixture:
The first harvest of biomass was done on June 26, 2009. The actual accomplishments of this quarter include: Identify and separate plant species in the biomass samples taken from each treatment plot. The species composition of the CRP biomass was determined by weighing and calculation the proportion of each species. Plant samples were also ground for future chemical

analysis. Plant samples were packaged and are ready to be ship to Idaho National Laboratory. The CRP biomass yield for each fertilizer treatment was calculated. Data will be entered into the data base managed by ORNL.

GA-Cool season mixture
End of Growing Season (EGS) Biomass Harvest: Biomass Subsample Processing and Moisture Analyses: This biomass harvest, while expected in late September, was not conducted as expected due to a shift in our regional climate from drought to an extended period of intense and constant rainfall. Virtually no opportunities arose in which a sufficient window of clear weather was predicted so as to allow for the planning and implementation of harvest activities. A beneficial aspect of the wet weather was that it was matched by temperatures sufficient to stimulate the growth of targeted cool season grasses such as the Tall Fescue that dominates the phenological structure of our research plot.

Baseline Soil Analyses (pH/electric conductivity (EC), Phosphorous (P), Potassium (K), Total Nitrogen (TN), Soil Organic Carbon (SOC): Baseline soil No baseline soil analyses were carried out as expected due to budgetary negotiations between fiscal managers at the University of Georgia, South Dakota State University, and the Department of Energy. However, funding was made available to the UGA research team on September 1st, 2009. On October 13th, 2009 Josh Egenolf contracted the Analytical Chemistry Lab at the University of Georgia to carry out the soil analyses.

MO- Cool season mixture:
Biomass samples were collected from the bales harvested at the peak standing crop and completed the preparation for chemical analysis. We are waiting for late autumn harvest. It was delayed due to weather conditions.

OK- Warm season mixture:
Peak standing crop harvest was completed on Sept 9th 2009. Sub samples were collected from the windrows. Fresh weight of both round bales and sub samples were recorded in the field. The sub samples were dried and dry weights were obtained. The samples are ground and ready to be sent for analysis. Percent dry matter varied from 54-60%. Plot yields varied from 1500 lbs/acre to 4700 lbs/acre.

Explanation of Varian
GA and MO: Due to the weather conditions in GA and MO, the end of growing season harvest is delayed.

Plans for Next Quarter: Continue collecting field data and complete biomass harvest for the second year.

Publications / Presentations/Proposals Submitted:
A panel paper including all the species in the herbaceous group was presented by species leads at the World Congress on Industrial Biotechnology and Bioprocessing in Montreal, QC, Canada in July.

From:	Seth C. Murray
To:	Wilfred Vermerris; Ana I Saballos
Cc:	Bill Rooney; Stephen Kresovich; Jeff Pedersen; Martha Hamblin; sem30
Subject:	HIF Tissue for RNA - expression sequencing
Date:	Wednesday, November 04, 2009 9:13:39 AM
Attachments:	RNA samples.xlsx

I finished the harvesting of tissue on Monday - given the cool temperatures the plants were in early hard dough stage and still had decent brix.

For each plant that I harvested I collected two samples;
Boot Time point: Flag Leaf and Internode 4
Hard dough: Peduncle and Internode 4
I took the center ~2 inches of internode 4 for RNA extraction and used each end of internode 4 in a handheld juice press to collect brix these two end values were then averaged. These values are reported in the attached spreadsheet.

In preparing to ship these to Florida I have two main questions:

1. Handsqueezed brix values from a single internode are probably not reliable and full of error. However, in the samples I took from family 7, the handsqueezed brix value was higher for the ine than the e. Should we cherry pick the samples that behaved as we expect (Choose samples with Rio allele having the highest handheld brix, samples with have lowest brix?). If so we could use Family 12 which behaves closer to what we expect but only has two samples in boot stage. Should we just ignore these handsqueeze values?

2. Should I ship all samples or a subset? There are probably three times more samples than we have money to analyze. If I ship a subset then if something happens we have backups I can reship.

Any thoughts appreciated.

Ana: the hard dough samples (especially the peduncle) are dirty and should be surfaced washed and/or cored to get the pith before RNA extraction if possible. I did not think about this until I was in the field with the liquid nitrogen and only a bandanna to wipe them off.

Thanks,

Seth

----- Original Message -----
From: "Wilfred Vermerris" <wev@ufl.edu>
To: "Bill Rooney" <wlr@tamu.edu>, "Seth C. Murray" <sethmurray@neo.tamu.edu>, "Stephen Kresovich" <sk20@cornell.edu>, "Ana I Saballos" <saballoa@ufl.edu>, "Jeff Pedersen" <Jeff.Pedersen@ars.usda.gov>
Sent: Monday, October 12, 2009 4:02:35 PM GMT -06:00 US/Canada Central
Subject: Map locations of Dwarf1 and Dwarf4?

Dear Steve, Bill, Seth and Jeff,

I was wondering if you are aware of the map locations of dw1 and dw4 in sorghum. If not, are you aware of anybody working on mapping these genes? We are interested in them, but would prefer to not duplicate ongoing efforts.

Thank you,

Wilfred

--
Seth C. Murray
Assistant Professor
Dept. Soil and Crop Sciences
TAMU MS 2474
College Station, TX 77843
Office (979) 845-3469
Cell (979) 595-5176
http://maizeandgenetics.tamu.edu/

From:	Howell, Terry
To:	Jeff Dahlberg; Jeff Dahlberg; Bruce Maunder; Bill Rooney; David Baltensperger
Cc:	John Burke; John Sweeten
Subject:	High Plains Grain Sorghum
Date:	Monday, August 17, 2009 3:03:33 PM
Attachments:	NASS_Yield_Tex_HP.JPG NASS_Area_Tex_HP.JPG

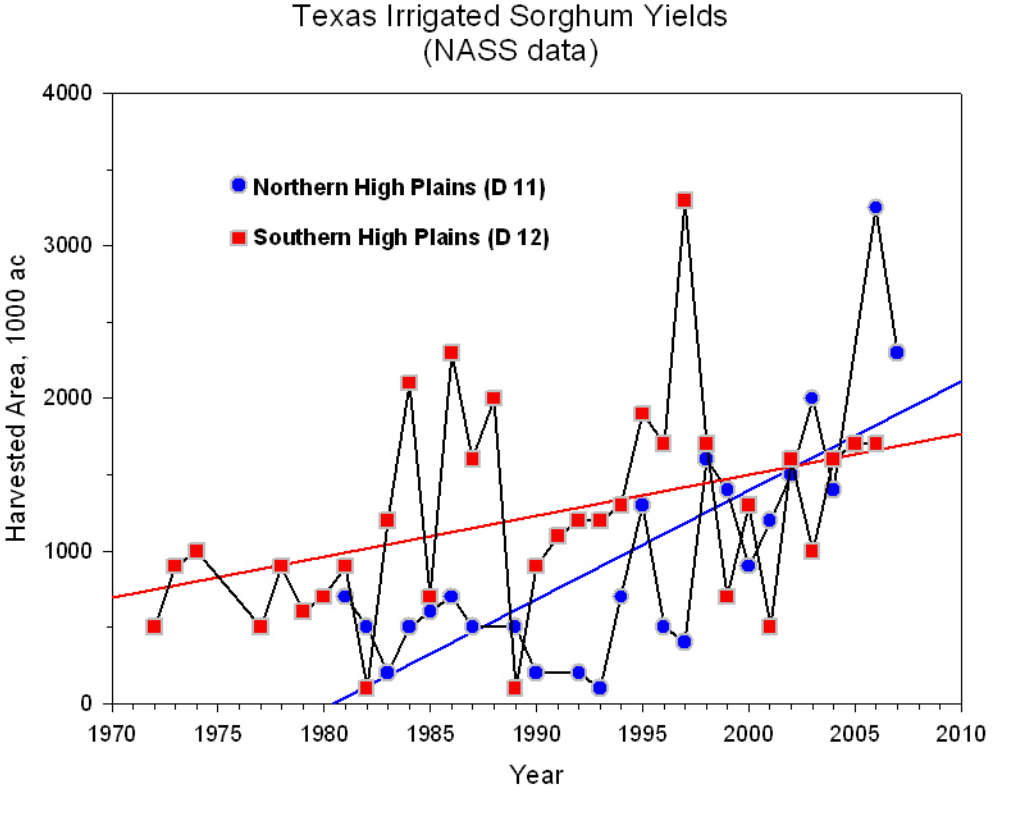
Jeff, Bruce, Bill, & David:

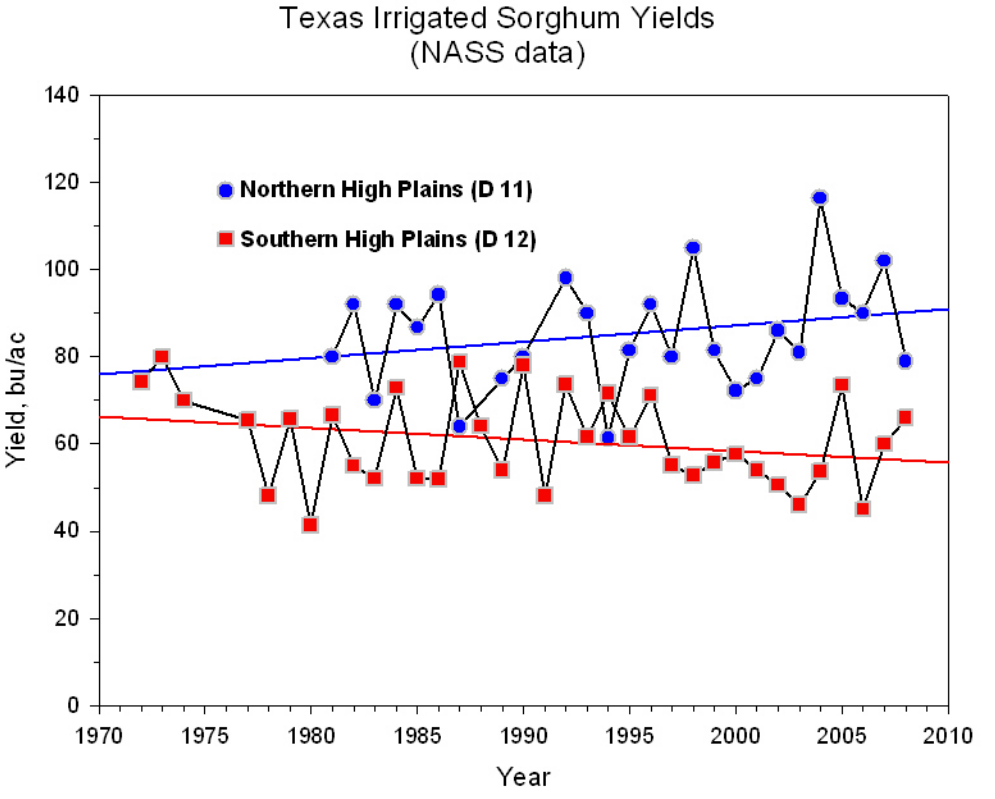
A short follow up on last Monday's sorghum meeting. Attached are NASS High Plains yield and acreage graphs for their data base. I deleted a few data from the acreage graph that seemed out of reason. Basically, this supports what Jeff presented that irrigated grain sorghum yields are stagnated at 80-90 bu/ac on the North Plains (not that different than we grew with RS 610 many moons ago) and 50-60 bu/ac on the South Plains. I didn't plot the dryland yields, but I don't expect those data to show anything unusual, although perhaps an increase in planted area.

Some good news, the acreage appears to be increasing on the Northern Texas HP (NASS District 1N).

Terry

Dr. Terry A. Howell, P.E., D. WRE
Research Leader
USDA-ARS
P.O. Drawer 10
Bushland, TX 79012-0010 U.S.A.
2300 Experiment Station Rd. (Shipping)
(806) 356-5746
(806) 356-5750 (fax)
terry.howell@ars.usda.gov
http://www.cprl.ars.usda.gov


Texas Irrigated Sorghum Yields
(NASS data)
Northern High Plains (D 11)
Southern High Plains (D 12)
Harvested Area, 1000 ac
Year
0
1000
2000
3000
4000
1970
1975
1980
1985
1990
1995
2000
2005
2010


Texas Irrigated Sorghum Yields
(NASS data)
Northern High Plains (D 11)
Southern High Plains (D 12)
Yield, bu/ac
Year
140
120
100
80
60
40
20
0
1970
1975
1980
1985
1990
1995
2000
2005
2010

From:	McCutchen, Bill
To:	wlr@tamu.edu; stelly@tamu.edu; Mullet, John E.; ssearcy@tamu.edu; jwrichardson@tamu.edu; jmgould@ag.tamu.edu; pklein@tamu.edu
Cc:	Avant, Bob; Simpson, Shay; ahelms@tamu.edu; Spurlin, Shayna; Nelson, Michelle; Bridges, Brenda; Gilliland, Diane M.; Giroir, Brett; Slovacek, Jackie
Subject:	Highest Priority: DARPA
Date:	Sunday, September 27, 2009 12:45:10 PM

All,

Please read Brett's email below.

Timing is of critical importance for completing the DARPA package, but we do not have to be as stringent as the example the Bob has (or will) provided.

We need to shoot for having a final package ready for submission by October 9th. Therefore we need to get started immediately, and I believe we have most of the RD components outlined. There maybe a little flex in the budget (+/- 5percent) starting in year 2 but especially year 3-5. We also need to ask Ceres for their input for Hawaii, TX and any other RD/plots that they may oversee.

I have asked Bob and his group to make this project their top priority, and I would suggest we meet as team or small groups periodically to facilitate. Now I am asking all of you to make this your top priority. We have a great opportunity to advance our bioenergy programs to the next level.

Thanks and please call with any questions.

Bill

From: Giroir, Brett
To: McCutchen, Bill
Cc: Pollard, Claudia
Sent: Sun Sep 27 08:28:24 2009
Subject: RE: DARPA UPDATE

I don't think you need that detailed of a statement of work as we did for DTRA. But it gives you some idea. I would not sit too long on this.
I will be happy to meet multiple times in the next 2 weeks to get this done

Brett P. Giroir, MD
Vice Chancellor for Research,
The Texas A&M University System;
Research Professor, Dwight Look College of Engineering;
Adjunct Professor, The Bush School of Government and Public Service;
200 Technology Way, Suite 2043
College Station, Texas 77845-3424
Phone: 979-458-6054
Fax: 979-458-6044

From: McCutchen, Bill
Sent: Friday, September 25, 2009 5:33 PM
To: Schuerman, Peter L.; Ellison, Mark M.; Howell, Bill; Diedrich, Guy
Cc: Giroir, Brett; Avant, Bob

Subject: Fw: DARPA UPDATE

We are starting to round 3rd base with DARPA per dedicated energy crop proposal.

Bill

From: McCutchen, Bill
To: Rooney Bill <wlr@tamu.edu>; John Mullet (jmullet@tamu.edu) <jmullet@tamu.edu>; stelly@tamu.edu <stelly@tamu.edu>; James Richardson (jwrichardson@tamu.edu) <jwrichardson@tamu.edu>; 'Gould Mike' <jmgould@tamu.edu>; Steve Searcy (ssearcy@tamu.edu) <ssearcy@tamu.edu>; (pklein@tamu.edu) <pklein@tamu.edu>
Cc: Avant, Bob; Dugas, William; Hussey, Mark; Giroir, Brett; Lunt, David; Baltensperger, David; Reinhart, Gregory; Riskowski, Gerald; Nichols, John P; Davis, Tim; Simpson, Shay; Gilliland, Diane M.; Adam Helms <ahelms@tamu.edu>; Spurlin, Shayna; Nelson, Michelle; Bridges, Brenda
Sent: Fri Sep 25 13:51:48 2009
Subject: DARPA UPDATE

All,

I just wanted to provide an update on progress with DARPA per Dedicated Bioenergy Crops proposal.

DARPA is now asking for a detailed technical brief (detailed task, work plan, schedule, and budget) inclusive of the recent proposal that we submitted. We will be receiving an example for you to work from in the near future. We will ask all of you to cooridate with Bob Avant's Corporate Relations and Diane Gilliland's Contracts and Grants groups to make this happen as soon as feasible.

Thanks again for all of your hard work and dedication, and no doubt that this request from DARPA is very positive news – no guarantees yet, but good news.

Thanks,

Bill

--
Bill F. McCutchen, Ph.D.
Associate Director
Texas AgriLife Research
Texas A&M University System
113 Jack K. Williams Administration Building
2142 TAMU College Station, TX 77843-2142
979-845-8488 Tel
979-458-4765 Fax
bmccutchen@tamu.edu

From: Prihoda, Karen L
To: Dr. Bill Rooney
Subject: HW DAYS
Date: Thursday, August 20, 2009 2:00:45 PM
Attachments: 2009 HW 8-11(1).XLS

This is the file with the HW flowering data in it.

Karen

Sorghum Breeding and Genetics
Department of Soil & Crop Sciences
Texas AgriLife Research
Texas A&M University
College Station, Texas 77842-2474

From: Patricia Klein
To: wlr@tamu.edu; Stelly David
Subject:
Date: Monday, September 28, 2009 1:46:09 PM

David and Bill

As part of the objective on for the DARPA grant, there will be some phenotyping that needs to be done. As I am not sure what that entails, I was hoping that the two of you could provide me with those details and what would be needed as far as budgeting goes. Additionally, I believe that we currently have a population of ~300 individuals. If we needed a larger population for cloning the gene is that going to be possible to obtain? Again what would this involve with regards to the budget? I want to make sure that I include the necessary supplies/reagents for phenotyping as well as population development (if it is needed) in the budget but am not sure what to include. Any information that you could provide would be appreciated.

Thanks
Trish

Dr. Patricia Klein
Associate Professor
Institute for Plant Genomics and Biotechnology
TAMU 2123
Texas AgriLIFE Research
Texas A&M University
College Station, TX 77843-2123

phone: 979-862-6308
fax: 979-862-4790

From: Patricia Klein
To: wlr@tamu.edu
Subject: iap population
Date: Monday, September 28, 2009 2:55:16 PM

Bill

Looking over the old DOE grant, we talked about a between Is that the population that would be available for the DARPA project? In the DARPA proposal it mentions a but I thought it was more advanced than that. Just need to get everything straight since I wasn't a part of the original description write up.

Thanks
Trish

Dr. Patricia Klein
Associate Professor
Institute for Plant Genomics and Biotechnology
TAMU 2123
Texas AgriLIFE Research
Texas A&M University
College Station, TX 77843-2123

phone: 979-862-6308
fax: 979-862-4790

From: Scott Finlayson
To: Bill Rooney
Subject: Ibrahim tenure review
Date: Wednesday, September 16, 2009 3:00:49 PM
Attachments: Ibrahim tenure review SF.doc

Attached.
S

Sept. 16, 2009

Evaluation of Dr. Amir Ibrahim's application for tenure at the Associate Professor level. Scott Finlayson, Associate Professor.

Teaching. Dr. Ibrahim has developed a graduate course for in experimental design with good enrollment and has achieved satisfactory evaluations. He currently serves as advisor or co-advisor for 1 Postdoc, 4 Ph.D. and 2 M.S. students. To this point in his career he has facilitated the graduation of 1 Ph.D. student and 2 M.S. students as major advisor and 1 Ph.D. student and 2 M.S. students as minor advisor. Considering that SD may not provide funding for, or attract, large numbers of graduate students these numbers seem to be quite acceptable.

Research. Amir has established a research program with broad objectives targeting yield, end-use quality, disease/insect resistance and stress tolerance that should provide value to Texas producers. Over the course of his career he has released or co-released 9 wheat cultivars, including a South Dakota best-of-show variety. Since coming to A&M in 2007 Dr. Ibrahim has demonstrated a solid record of publication and plant registrations, including 5 refereed journal articles, several journal articles in review and 4 plant registrations. His career publication record includes 12 refereed journal articles and 6 plant registrations, 6 extension publications and 13 book chapters/technical reports. He has been active at attending and presenting results at various regional and national meetings. This record seems consistent with a successful breeding program. He has managed to contribute to 2 TAM wheat releases since joining the department indicating successful integration with prior and existing programs.

Dr. Ibrahim has obtained substantial funding totaling over $2 million during his career. Since coming to Texas A&M he has acquired over $720,000 including more than $370,000 in competitive, external funding. Amir has demonstrated a continuing effort to target competitive external funding to supplement internal and commodity sources. It is apparent that Amir is ambitious and that his research program is in an accelerating phase.

Service. Dr. Ibrahim has been active in service to both the department and the wheat community. He has participated in co-organizing the department's plant breeding/ genetics circle which provides a forum for discussion between breeding/ genetics faculty and students. He has been an active member of the Texas Plant Protection Association and served on the US Wheat Germplasm Committee and other committees. Amir has also demonstrated willingness to conduct outreach exercises by communicating wheat-related issues via different media sources (TV, radio). These service functions, and others listed on his CV, certainly satisfy or exceed the commitments expected of his position.

Support letters. Four letters of support have been provided for Dr. Ibrahim. Two are from collaborators and two are from others familiar with Amir and his work. All four letters are very positive, with no negative comments.

Summary. Dr. Ibrahim is meeting or exceeding the requirements for tenure at the Associate Professor level expected for the wheat breeding position. He has established a successful graduate level course and has recruited graduate students to his research program. He also has a record of successful mentoring through the graduation process. He has demonstrated a willingness to contribute meaningful service to both the department and the wheat community. Finally, both acquisition of funding and tangible outputs indicate positive momentum in his research program.

From: Christine Economides

To: "Steve Puller"; Rich Woodward; Bruce McCarl; "William Batchelor"; "Mahmoud El Halwagi"; "Robin Autenrieth"; "Qi Ying"; "Maria Barrufet"; "Arnold Vedlitz"; "Eric Lindquist"; Griffin, Jim; "Don T. Phillips"; [redacted]; kbrumbelow@civil.tamu.edu; Emily Zechman; Sarah Brooks; Don Collins; Renyi Zhang; John Nielsen-Gammon; Lee Clap; Andy Banerjee; Lewis Ntaimo; James Richardson; "Ramesh Talreja"; "Zoubeida Ounaies"; "Thomas Strganac"; "Vikram Kinra"; "Yu Ding"; "Brett Peters"; "Jorge Seminario"; "Perla Balbuena"; "Hong-Jue Sue"; "Z . Cheng"; "Wenhao Wu"; "Haiyan Wang"; "X Cheng"; "Dong Hee Son"; James Batteas; [redacted]; zhou@mail.chem.tamu.edu; Hae-Kwon Jeong; Sandun Fernando; Paul Cremer; John Gladysz; Wayne Goodman; [redacted]; ozerov@tamu.edu; Jyhwen Wang; Hamid toliyat; "Ronald Lacey"; "Mark Holtzapple"; "Sergio Capareda"; "Karthi Karthikeyan"; "Cady Engler"; "Zivko Nikolov"; "Steve Searcy"; "Alex Thommasson"; "Ruixiu Sui"; "Patricia Klein"; "Bill Rooney"; "Calvin Parnell"; "Gioia Falcone"; "Hisham Naserldin"; Ghassemi, Ahmad; Peter Valko; "Kalyan Annamalai"; "Sukesh Aghara"; "Karen Vierow"; "Pavel Tsvetkov"; "John Ford"; Patrick Mills; Kim D. Jones; Dirk Hays; Travis Miller; Don Vietor; Joshua S. Yuan; Jean Escudero; BillCharltonwcharlton @tamu.edu>,William Marlow <w-marlow@tamu.edu>, Ziaul Huque <zihuque@pvamu.edu>,Radhava Kommalapati <rrkommalapati@pvamu.edu>, "Christine Economides" <c.economides@pe.tamu.edu>, "Mladen Kezunovic" <kezunov@ece.tamu.edu>, "Warsame Ali" <whali@pvamu.edu>, "Chanan Singh" <singh@ee.tamu.edu>, "Karen Butler-Purry" <klbutler@ece.tamu.edu>, "B .Don Russell" <bdrussell@tamu.edu>, "John Fuller" <jhfuller@pvamu.edu>,Jeff Haberl <jhaberl@tamu.edu>, David Claridge <dclaridge@tamu.edu>, "Dennis O'Neal" <doneal@tamu.edu>,Warren Heffington <wheffington@tamu.edu>, "Carl Laird" <carl.laird@tamu.edu>, "Benham Jafarpour" <behnam@pe.tamu.edu>,Charles Culp <cculp@tamu.edu>, Robert Balog <rbalog@tamu.edu>,Mark Clayton <mark-clayton@tamu.edu>, Michael Pate <mpate@tamu.edu>

Subject: IGERT-ESE SUBMITTED!!

Date: Monday, September 14, 2009 7:29:53 PM

Attachments: FastLane[1]IGERT-ESE-09.pdf

To all,

My thanks to all of you for your help in preparing this proposal. The version back from NSF Fastlane is attached so that you can see everything that went into this effort. Soon enough we will know whether we get the funding. One thing we know already - there are a lot of faculty members on this campus besides the petroleum engineers who are interested in energy education and research.

Special thanks to those who helped get support and collaboration letters. If you don't see yours there, it is because I was limited how many letters to submit. I still have them, and we may need them if we get the funding for NSF to see. Also special thanks to Ramesh Talreja and Patrick Mills who were reading final versions over the weekend. We finalized the following vision just minutes before submission:

The Integrative Graduate Research and Education Traineeship - Energy Sustainability Engineering (IGERT-ESE) **vision** is to develop the next-generation of scientists and engineers having broad expertise in energy engineering science and technology and providing the leadership needed for a sustainable energy future.

I hope you like it.

Regards,
Dr. Christine Ehlig-Economides
Albert B. Stevens Endowed Chair
Petroleum Engineering Department, 710 Richardson, TAMU 3116
Office Phone: 979 458-0797
Mobile Phone: 281 948-3621

From:	Rodomiro Ortiz
To:	wlr@tamu.edu
Subject:	IJA/729870: Review Request
Date:	Wednesday, October 14, 2009 8:03:15 PM

Dear Prof. Rooney,

International Journal of Agronomy has received a Research Article titled "Anthracnose Disease Response for Sorghum Breeding Lines Developed from Ethiopian Germplasm," by John E. Erpelding, submitted for possible publication in the journal. As the editor in charge of this manuscript, I would be grateful if you can review this manuscript and submit a review report in a timely manner. The PDF file of the manuscript is available at the following URL:

http://mts.hindawi.com/921188314873.pdf

Please let me know whether you will be able to review this manuscript (and how much time you will need to submit your review report) using the following URL:

http://mts.hindawi.com/921188314873.html

With many thanks and best regards,

Rodomiro Ortiz
r.ortiz@cgiar.org

From:	Rene Clara
To:	Bill Rooney
Cc:	Joan Frederick
Subject:	Import permit
Date:	Tuesday, September 01, 2009 9:08:54 AM
Attachments:	Permiso.jpg Permiso 2.jpg

Dear Dr. Bill,

Attached you will find the permission of import on two pages.
The germoplasma of interest is:

- R Lines, white grain, a little higher than 86 EO 361, with good combinatorial aptitude and that do not complement genes for height of plant.
- Lines of sudan grass sweet with genes bmr.
- A and B Lines wuth bmr genes.
- Other that you recommend to us.

We already deliver the funds to Vilma, Salvador and Max, to be supported in PCCMCA and to Jaco we deliver for buy of tickets of plane and to be supported in PCCMCA. To the return they will present receipts of his expenses to the CENTA and we will send them to Joan with copy to you.

René

DETALLE DE PRODUCTOS AUTORIZADOS Y REQUISITOS SANITARIOS	
Código Arancelario	**10070010022**
Producto:	**SEMILLA EXPERIMENTAL DE SORGO, No. de Autorización : I - 2009 - 026898 - ST - 001**
Documentos exigibles:	
País de origen:	USA
Requisitos:	
▶INDICAR EN EL CERTIFICADO FITOSANITARIO QUE LA SEMILLA VIENE LIBRE DE PLAGAS Y SEMILLAS DE MALEZAS, HA RECIBIDO TRATAMIENTO QUIMICO INDICANDO EL NOMBRE DEL PRODUCTO USADO Y SU DOSIS. INDICAR SI ES UNA SEMILLA PARA USO PROPIO, EXPERIMENTAL O COMERCIAL CERTIFICADA POR EL ORGANISMO CERTIFICADOR DEL PAIS DE ORIGEN EN SU CATEGORIA GENETICA CORRESPONDIENTE. ANALISIS DE CALIDAD RECIENTE Y ETIQUETA DE CERTIFICACION VIGENTE, GERMINACION MINIMA 80%. SE DEBERA ESPECIFICAR LA VARIEDAD, MARCA COMERCIAL, NUMERO DE LOTE, FECHA DE COSECHA Y PRODUCTOR, ESPECIFICANDO SI ES TRANSGENICA O CONVENCIONAL ESTAR INSCRITA EN EL REGISTRO NACIONAL DE VARIEDADES COMERCIALES LA SEMILLA SERA MUESTREADA EN EL ALMACEN PARA VERIFICAR SU CALIDAD ANTES DE SER COMERCIALIZADA.	

ATENCION: La cantidad de $ 9.04 dólares, en concepto de AUTORIZACION FITOSANITARIA DE IMPORTACION, deberá ser cancelada en colecturías de D.G.S.V.A. y la mercancía será verificada por los inspectores oficiales de la División de Certificación Fitozoosanitaria para el Comercio en el punto de entrada al territorio nacional.

MINISTERIO DE AGRICULTURA Y GANADERIA
DIRECCION GENERAL DE SANIDAD VEGETAL Y ANIMAL
DIVISION DE CERTIFICACION FITOZOOSANITARIA PARA EL COMERCIO

AUTORIZACION FITOSANITARIA DE IMPORTACION

No. I2009026898ST001

Fecha de Emisión: ***27/08/2009***
Fecha de Vencimiento: ***25/09/2009***

Con fundamento en la Ley de Sanidad Vegetal y Animal, Decreto No. 524, Título IV, Capítulo I, Artículo 13, Incisos desde el a) hasta el g), la Dirección General de Sanidad Vegetal y Animal (D.G.S.V.A.), entrega a :

IMPORTADOR		EXPORTADOR	
No. de NIT	0511-010410-001-1	Nombre	UNIVERSIDAD DE TEXAS A&M, USA
Nombre	CENTRO NACIONAL DE TECNOLOGIA AGROPECUARIA Y FORESTAL (CENTA) ,	Dirección	TAMU, 2474, COLLEGE STATION, TX 77843-24, USA
Dirección	KM.33 .5 CARRET. A SANTA ANA		-
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Punto de Entrada	AEROPUERTO INTERNACIONAL EL SALVADOR	País de Procedencia	USA
DUI	01823699-0	Punto de Procedencia	-
Tramitador	ALDEMARO CLARA MELARA-	Procesador	-

PESO MAXIMO AUTORIZADO PARA IMPORTACION	
Peso Total en Kilogramos	4.00
Valor a Pagar (Según Acuerdo Tarifario)	$ 9.04

	-
FIRMA Y SELLO DIRECTOR GENERAL D.G.S.V.A.	FIRMA Y SELLO DEL INSPECTOR

From: Vilma Ruth Calderon
To: LLoyd Rooney; Bill Rooney
Cc: Rene Clara
Subject: important information
Date: Tuesday, November 10, 2009 1:13:09 PM

Dr. Rooney

At this moment some changes are ocurring at CENTA because we have new director as i mentioned before. Some people is being relocated or assigned to a new departments. I dont know if this changes are going to affect me, but some people told me that maybe i will be assigned to another unit. It would be good if you send a letter to CENTA's director explaining what we are doing and why is necessary that i will continue working for INTSORMIL.
CENTA's New director's name is Rene Rivera Magana.
Please let me know if you think is convenient or not to send this letter.

thanks

Vilma Ruth Calderon

From:	Lloyd Rooney
To:	cweller1@unl.edu; jawika@tamu.edu; [redacted]
Cc:	n-turner@tamu.edu; wlr@tamu.edu
Subject:	Info for white paper
Date:	Tuesday, August 18, 2009 8:12:08 AM
Attachments:	ATT00009.bmp sorgphenolslegislativeblurb.doc

Here are some comments relative to phenols and health from sorghum. Super Sorghums for SOUPER HEALTH FOODS.

Dr. Lloyd W. Rooney
Regents Professor and Faculty Fellow
Cereal Quality Laboratory
Texas A&M AgriLife Research
2474 TAMU
College Station, TX 77843-2474 USA
phone 979 845 2910; fax 979 845 0456
<lrooney@tamu.edu> http://soilcrop.tamu.edu http://tamufood.org

Black sorghums contain high levels of the unique 3-deoxyanthocyanins; sorghum is reported as the only natural souce of these compounds. Sorghum 3-deoxyanthocyanin pigments are very stable as food colorants compared to other natural pigments (Awika et al 2004, Cardenas, A. 2008), and also induce strong chemoprotective and anti-inflammatory response in human cell cultures (Yang et al 2009). The combination of black sorghum (high in 3-deoxyanthocyanins) with condensed tannin sorghum genes is particularly promising as a means to produce potent dietary ingredients for health applications

High levels of other unique flavanoids have been documented in some sorghums which make them an excellent source of rare anti-inflammatory compounds. For example, lemon yellow sorghum has more flavanones than citrus products (Dykes 2008), and tan plant sorghums have very high levels of flavones (Dykes et al 2009). In addition, we recently documented that sorghum non-grain tissues have very high levels of these unique flavanoids which could be efficiently extracted as a by-product of biomass conversion to alcohol. Combined, the potential advantages of sorghum as a source of health-promoting compounds are enormous.

Sorghums contain large quantities of condensed tannins that bind proteins and carbohydrates and reduce the digestion of foods which provides relief to type II diabetics and overweight humans. In addition, the condensed tannins provide anti-cancer activities as measured by in vivo tests in several laboratories around the world.

These special sorghums can be readily grown, processed into a wide variety of foods and provide a relative inexpensive source of phytochemicals. The black and tannin sorghums have large quantities of pigments that are extremely stable and could be used as natural pigments.

Sorghum is a popular food choice among Celiacs. It provides an inexpensive ingredient for a wide variety of foods enjoyed by wheat gluten intolerant people. Additional products made with the healthy sorghums will provide welcome variation in gluten free products.

From: Bill Rooney
To: "David Baltensperger"
Subject: information for tomorrow
Date: Tuesday, August 25, 2009 9:23:00 PM
Attachments: Hussey Presentation - Rooney.pptx

David

For consistency's sake, I've put the information provided by each group on a slide for the presentation tomorrow.

I'm sure there is too much information, but I would like your insight so that the level is consistent with other presentation. Here are my thoughts

1. The algae work seems too specific (I will trim) - I plan emphasizing that we can be the department for production work.
2. The perennial grass slide from Russ - seems to be to many projects (sort of the throw it against the wall and see what sticks). Should I trim or leave it alone and let Hussey figure that out himself.
3. I think the oilseed and sorghum are about right, just enough to be dangerous. I might trim the oilseed a little, but I'll discuss what is mentioned.

Your thoughts are appreciated (before noon so I can make my adjustments).

Thanks,
bill

Dr. William L. Rooney
Professor, Sorghum Breeding and Genetics
Chair, Plant Release Committee
Texas A&M University
College Station, Texas 77843-2474
979 845 2151

From: Bill Rooney
To: ghodnett@ag.tamu.edu
Subject: inspection 955
Date: Friday, October 09, 2009 1:48:36 AM

Is 955 your greenhouse (or is it my half greenhouse)?

If it is yours, and it is now clean, we can respond immediately. In that case, write what is needed and we'll get it taken care of immediately. If not yours, let me know and I'll deal with it.

Bill

From: Jeff Dahlberg
To: Wolfrum, Ed; Bill Rooney
Subject: Interesting
Date: Monday, August 03, 2009 12:47:56 PM
Attachments: Chemical analysis data for all NSP samples.xlsx

Guys:

If you look at the sheet that has all the data, I've averaged everything and also did highs and lows. I then used the DOE calculator to see what kind of g per dry ton I could get.

I would venture to guess that there are not too many crops that could come close to this.

Jeff

Dr. Jeff Dahlberg
USCP
4201 N. Interstate 27
Lubbock, TX 79403
Office: 806-687-8727
Cell: 806-438-8501
E-mail: [redacted]

From: Prihoda, Karen L
To: Dr. Bill Rooney
Subject: Internship Papers
Date: Wednesday, July 29, 2009 9:41:28 AM
Attachments: Approval of Visiting Scholars.pdf
Insurance Requirements.pdf
Internship Plan.pdf
J1 Student Internship Information.pdf
J-1 Questionnaire Departmental.pdf
Non-Immigrant Questionnaire.pdf
Student Intern Check list.pdf

Dr. Rooney:

I have filled out all that I knew. But I had not information to go by.

Sorry,

Karen

Sorghum Breeding and Genetics
Department of Soil & Crop Sciences
Texas AgriLife Research
Texas A&M University
College Station, Texas 77842-2474

Print Form

FORM 5VS
12/05

Approval of Visiting Scholars

The Soil & Crop Science Department-Sorghum Research-Texas AgriLife Research-College Station,TX 77843 requests authorization to make an agreement with a Visiting Scholar as follows:

1. Name: Miss Pamela Benton UIN _____

2. Citizenship: U.S. ☐ ; Other _____ ; Visa Status _____

3. Title Requested: _____

4. Visitation Period: March 15, 2010 to August 1, 2010

5. Complete this if the person has been employed by TAMU at any time during the 12-month period preceding the effective date of this appointmen:

   PIN _____ Title _____

   FTE monthly salary _____

6. Briefly describe education and background or attach resume.

_____

_____

7. Briefly describe the nature and purpose of the visit and how the visit is research related.

_____

_____

_____

_____

_____

PREPARED BY:

_____

Host Faculty Member Date

APPROVAL RECOMMENDED:

_____

Department Head or Director Date

_____

Dean Date

* Send original and two copies to the Dean's Office

** Dean's Office will forward one copy to the Vice President for Research

*** Approved form must be copied to the Immigration Service Office in the Human Resources Department (for international scholars only).

Form 5VS General Guidelines

1. The purpose of this form is to establish administrative approval of a Visiting Scholar agreement. These agreements are of a temporary nature.
2. The form is to be used to establish a new agreement with a Visiting Scholar or to establish a modified agreement related to a change in the original agreement. A letter of justification and a copy of the previous 5VS must be attached.

State law requires you be informed of the following:
(1) you are entitled to request to be informed about the information about yourself collected by use of this form (with a few exceptions as provided by law); (2) you are entitled to receive and review that information; and (3) you are entitled to have the information corrected at no charge to you.

Print Form

Texas A&M University
International Faculty and Scholar Services

DEPARTMENT QUESTIONNAIRE FOR J-1 SPONSORSHIP OF EXCHANGE VISITORS

SPONSORING FACULTY DEPARTMENT: SOIL & CROP SCIENCES DEPARTMENT

ADDRESS OF DEPARTMENT: 370 OLSEN BLVD., COLLEGE STATION, TX 77843-2474

CONTACT PERSON FOR DEPARTMENT: BARBARA BRACKEN

EMAIL ADDRESS: BBRACKEN@AG.TAMU.EDU TELEPHONE NUMBER: +1 (979) 845-3042

NAME OF FACULTY HOSTING EXCHANGE VISITOR: Dr. William"Bill" L. Rooney

EMAIL ADDRESS: wlr@tamu.edu TELEPHONE NUMBER: +1 (979) 845-2151

The purpose of the J-1 Exchange Visitor Program is to "increase the mutual understanding between the people of the United States and the people of other countries by means of educational and cultural exchanges". Professors and research scholars may be sponsored as exchange visitors if the program in which they will be participating furthers the objectives of 22 CFR §62.20 (b):

- **Foster the exchange of ideas and stimulate international collaborative teaching and research efforts**
- **Engage in teaching, lecturing and research with their American colleagues**
- **Participate in cross-cultural activities with Americans**
- **Share with their fellow citizens their experience and increased knowledge about the United States and their substantive fields**

Exchange visitors are expected to return home after they have concluded the program. The exchange visitor category is not intended for permanent employment (tenure, tenure-track, or similar positions in research). This should be stated on your letter of invitation to the exchange visitor. If you intend to employ the exchange visitor in a permanent capacity the H-1B category must be pursued.

NAME OF EXCHANGE VISITOR HOSTED: Miss Pamela Benton

TITLE OF POSITION:

(Attach to questionnaire a Program Objective Description)

ACTIVITY SITE (LOCATION): Brazos Bottom - College Station,TX

ARE YOU FINANCIALLY SUPPORTING THIS POSITION? ☐ YES ☐ NO

-IF YES, INDICATE THE AMOUNT OF FINANCIAL SUPPORT: $

-IF NOT, INDICATE WHO IS FINANCIALLY SUPPORTING THE VISIT AND THE AMOUNT OF THE FINANCIAL SUPPORT:

PERIOD OF TIME COVERED: (START DATE - END DATE): From 03/15/2010 To 08/01/2010

ELIGIBLE FOR TEXAS A&M UNIVERSITY INSURANCE? ☐ YES ☐ NO

-IF NOT, EXCHANGE VISITOR MUST PROVIDE NAME OF INSURANCE PROVIDER AND DATES OF COVERAGE (See Health Insurance Requirements at: http://ifss.tamu.edu/pdf/j1.pdf)

CATEGORY OF EXCHANGE VISITOR :

Note that some exchange visitors may be subject to the 2 year home residence requirement based on the Skills list or home/U.S. government funding.

Read carefully before choosing the two types of categories available :

☐ **Short Term Scholar** - stay of no more than 6 months; no extensions permitted; must leave US after completion, but may return for another program

☐ **Research Scholar** - stay of 3 weeks to 5 years, after completion cannot return to US under research category for minimum of 24 months

Note: Program in Veternary Medicine, Nursing, Dentistry, Psychological consulting or any other field requires **Direct Clinical Patient contact** by participants are excluded from the Exchange Visitor's Program.

☐ By checking this box this Exchange Visitor's Program is non-clinical in nature.

By signing this form, the Department Head is attesting that Texas A&M University is sponsoring the exchange visitor for the purposes of the Exchange Visitor Program and that a permanent job offer, tenure or tenure-track or similar position in research has not been offered to the exchange visitor who is expected to return home at the conclusion of the program.

Department Chair/Head (Print Name): _____

Sign & Date: _____ _____

Hosting Faculty Member (Print Name): _____

Sign & Date: _____ _____

HOSTING AN EXCHANGE VISITOR: As the host and responsible party of an exchange visitor to your department atTexasA&MUniversity, we would like to share with you a few recommendations to ensure that your guest has a memorable experience of his/her stay:

-Arrange housing for your visitor

-Arrange for picking up your visitor at the airport

-Arrange for transportation for your visitor while at Texas A&M University

-Introduce your visitor to their new neighborhood by pointing out which locations are closest to the visitor's place of residence (grocery store, laundry, school for children, emergency medical attention)

-Show your visitor your department and college

-Introduce your visitor to colleagues at the first possible department meeting

-Arrange for social event such as for example a reception for your visitor and his/her family, lunch and /or dinner with other colleagues

-Show your visitor the University by taking advantage of the walking tours offered at the Visitor's Center in Rudder Tower

-Contact the Bryan/College Station Convention and Visitors' Bureau to provide your visitor with information on the community offerings

-Arrange for an out of town trip with your visitor to experience the wonders of this great state of Texas

U.S. Department of State

*OMB APPROVAL NO. 1405-0170
EXPIRATION DATE: 07-31-2009
ESTIMATED BURDEN: 60 minutes

TRAINING/INTERNSHIP PLACEMENT PLAN

Check one: ☐ Trainee ☒ Intern	Occupational Field	Number of Years of Experience
	Level of Degree	Date Awarded *(mm-dd-yyyy)*	Field of Study

PARTICIPANT INFORMATION

Trainee/Intern Name *(Last, First, MI)*		U.S. Residence Address
Benton, Pamela		
U.S. Telephone Number	FAX Number	Email Address
		pamela.benton@uqconnect.edu.au

SITE OF ACTIVITY INFORMATION

Host Organization		Address
Texas AgriLife Research		Soil & Crop Sciences,Texas A&M university, College Station, TX 77843-2474
Supervisor's Name *(Last, First, MI)*		Email Address
DR. Rooney,William L		wlr@tamu.edu
Phone Number	FAX Number	Supervisor's Title
979-845-2151	979-862-1931	Professor
Dates of Program *(mm-dd-yyyy)* From 03-15-2010 To 08-01-2010	Hours Per Week 40	Will Trainee/Intern receive a stipend? ☐ Yes ☐ No	If so, how much? $_____ per _____

CONTRACT AGREEMENT

NOTE- Sponsors will not approve any contracts, and Trainees/Interns may not begin their programs until both a Training/Internship Placement Plan *(page 2)* and proof of required insurance that meets 22 CFR 62.14 is on file with the sponsor.

Trainee/Intern- I hereby acknowledge, understand and agree to the attached Training/Internship Placement Plan.

Trainee/Intern Signature	Date *(mm-dd-yyyy)*

Supervisor- I certify that I will provide on-site supervision and that this training/internship is known and approved by this company/business or organization *(site of activity)*. I will ensure that the required insurance is in place that meets 22 CFR 62.14 and provide the sponsor with written evaluations of the trainee/intern's performance, including the number of hours performed, the type of training, and the quality of the performance. At minimum, I will submit the evaluation at the mid-point and end of the program.

Supervisor's Signature	Date *(mm-dd-yyyy)*

Sponsor- I approve the attached Training/Internship Placement Plan. I certify the following:

1. Sufficient planning, equipment, and trained personnel will be dedicated to provide the training/internship specified;
2. The training/internship program is not designed to recruit and train aliens for employment in the United States;
3. Trainees/Interns will not displace full-time or part-time U.S. employees; and
4. That training and internship programs in the field of agriculture meet all requirements of the Employment Relationship under the Fair Labor Standards Act and the Migrant and Seasonal Agricultural Worker Protection Act *(29 CFR Part 500)*.

I understand that false certification may subject me to criminal prosecution under 18 U.S.C. 1001, which reads: "Except as otherwise provided in this section, whoever, in any matter within the jurisdiction of the executive, legislative, or judicial branch of the Government of the United States, knowingly and willfully falsifies, conceals, or covers up by any trick, scheme, or device a material fact; makes any materially false, fictitious, or fraudulent statement or representation; or makes or uses any false writing or document knowing the same to contain any materially false, fictitious, or fraudulent statement or entry; shall be fined under this title or imprisoned not more than 5 years, or both."

Sponsor's Signature *(RO/ARO)*	Date *(mm-dd-yyyy)*
Program Sponsor Name	**Program Number**
Dr. William L. Rooney	

DS-7002
04-2007

*Public reporting burden for this collection of information is estimated to average 60 minutes per response, including time required for searching existing data sources, gathering the necessary data, providing the information required, and reviewing the final collection. Persons are not required to provide this information in the absence of a valid OMB approval number. Send comments on the accuracy of this estimate of the burden and recommendations for reducing it to: U.S. Department of State (A/ISS/DIR) 1800 G St. NW, Washington, DC 20520.

Program Sponsor Name	Program Number
Dr. William L. Rooney	

TRAINING/INTERNSHIP PLACEMENT PLAN

An acceptable Training/Internship Placement Plan should cover a definite period of time and should consist of definite phases of training or tasks performed with a specific objective for each phase. The plan must also contain information on how the trainees/interns will accomplish those objectives *(i.e. classes, individual instruction, shadowing, etc.)*. Each phase must build upon the previous phase to show a progression in the training/internship. A separate copy of page 2 must be completed for each phase if applicable *(i.e.; if the trainee/intern is rotating through different departments)*.

Name of Trainee/Intern *(Last, First, MI)*	Field of Training/Internship
Benton, Pamela	

Name of Phase	Start Date for this Phase	End Date for this Phase	
	_____ *(mm-dd-yyyy)*	_____ *(mm-dd-yyyy)*	Phase _____ of _____

Specific Objective for This Phase

Skills to be Imparted for This Phase

Justification for On-The-Job Training

Chronology or Syllabus of Training or Tasks Performed During This Phase

Method of Evaluation and the Frequency of Supervision During This Phase

DS-7002

Print Form

Texas A&M University

International Faculty and Scholar Services

Employee Non-Immigrant Questionnaire

State law requires us to inform you that you are entitled to:

1 Request from us information collected about yourself on this form; with a few exceptions provided by law.
2 Receive and review that information.
3 Have the information corrected at no charge.

Contact: (979) 862-1719

Name: First: Pamela | Middle: | Last: Benton

Gender: ○ Male ◉ Female

Date Form submitted :

Phone :

Date of Birth :

Email :

Place of Birth *(city/country)*:

US Social Security Number: *(If given one)*

Country of Citizenship:

Country of Permanent Residence:

Country of Residence before coming to the USA:

Current Address:

Address 1
Address 2
City State
Country
Zip Code

Foreign Mailing Address (mailing address in home country):

Address 1
Address 2
City State
Country
Zip Code

Background Information :

Have you been in the USA before? ○ Yes ○ No If yes: From To

Date of Last Arrival: With what immigration status?

Have you ever worked in the USA? ○ Yes ○ No If yes, please explain on a separate sheet of paper.

Have you ever been deported from the USA ? ○ Yes ○ No If yes, when?

What is your current Immigration status ?

When does your I-94 expire ?

Please INDICATE DATES spent OUTSIDE THE U.S., while in " H " status:

Consular Processing :

If you are not Currently in the U.S., the employer must request in the H-1B petition that the United States Citizenship & Immigrantion Services notify the appropriate U.S. consular post of the approval of the petition.

Please provide the country and consulate (City) where you wish to consider process:

Country to Consular Process: **City**

The IFSS will forward the original Approval Notice (Form I-797) to you together with the approved copy of the H-1B petition, as soon as it is received. The I-797 should be used to apply for the H-1B visa stamp at the U.S. consular post abroad. Individuals in H-1B classification may enter the U.S. from a foreign country up to 10 days before the appointment begin.

Academic Information :

What degree(s) have you obtained ?

1

Country degree(s) obtained in :

Field of study as stated on diploma / transcript :

2

Country degree(s) obtained in :

Field of study as stated on diploma / transcript :

Dependents :

Spouse : **Name:** *First* *Last*

Gender: ○ Male ○ Female

City / Country of Birth:

Date of Birth:

Country of Citizenship:

Country of Permanent Residence:

Child : **Name:** *First* *Last*

Gender: ○ Male ○ Female

City / Country of Birth:

Date of Birth:

Country of Citizenship:

Country of Permanent Residence:

Child : **Name:** First _____ Last _____ **Gender:** ○ Male ○ Female

City / Country of Birth: _____ **Date of Birth:** _____

Country of Citizenship: _____ **Country of Permanent Residence:** _____

Only for H -1B, O -1,TN, and F1/OPT Applicants :

If currently an H1-B, O-1, TN, how long have you held this status ? _____

If under Practical Training, when did you commence it ? _____

If you have an EAD (Employment Authorization Document), what is the validity date ?

From _____ To _____

Only for J -1 Applicants :

Place of employment in home country:

Job Title: _____

○ University ○ Private Institution ○ Government Institution ○ Other

Are you in the USA on another visa ? ○ Yes ○ No

- If yes, what type ? _____

Is the financial support provided exclusively for you to participate in the Exchange Visitors Program?

○ Yes ○ No

Other Informtion that you believe we should be aware of as it relates to your status in the U.S.A :

From:	John L Jifon
To:	Erik Mirkov; Nael El-Hout; Qingyi Yu; C. Wayne Smith; Bill L Rooney
Cc:	J. Michael Gould
Subject:	Interview Guides & Evaluation Forms
Date:	Friday, September 11, 2009 5:31:24 PM
Attachments:	Evaluation Form Serge J. EDME.rtf Evaluation Form Collins Kimbeng.rtf Evaluation Form Patrick J. Brown.rtf Interview Guide.doc Faculty Recruiting Interview Guide.doc Interview Consensus Form.doc

---

Dear all,
Attached are some Interview Guides from HR and & Evaluation Forms for each candidate.
Thanks
John.

AgriLife Research -Weslaco and
Soil & Crop Science Department
AgriLife - Texas A&M System

Candidate Evaluation Form

Associate/Assistant Professor in Genetic Improvement of High Biomass Crops

Candidate: **Dr. Collins Kimbeng**

Evaluation by: ___Faculty ___ Student___Post Doc___Staff___Other

Written Comments:

Indicate your ranking of this candidate: __1; __2; __3; __4; __Unacceptable: (1 = first choice)
Evaluation based on: ____ Seminar
____ Application package
____ Personal contact

Evaluator's Name: _____

(Evaluations will be tallied and assembled but evaluator's name will remain confidential.)

Please return this form to John Jifon

AgriLife Research -Weslaco and
Soil & Crop Science Department
AgriLife - Texas A&M System

Candidate Evaluation Form

Associate/Assistant Professor in Genetic Improvement of High Biomass Crops

Candidate: **Dr. Patrick J. Brown**

Evaluation by: ___Faculty ___ Student___Post Doc___Staff___Other

Written Comments:

Check the appropriate:
Indicate your ranking of this candidate: __1; __2; __3; __4; __Unacceptable: (1 = first choice)
Evaluation based on: ____ Seminar
____ Application package
____ Personal contact

Evaluator's Name: _____

(Evaluations will be tallied and assembled but evaluator's name will remain confidential.)

Please return this form to John Jifon

AgriLife Research -Weslaco and
Soil & Crop Science Department
AgriLife - Texas A&M System

Candidate Evaluation Form

Associate/Assistant Professor in Genetic Improvement of High Biomass Crops

Candidate: **Dr. Serge J. Edme**

Evaluation by: ___Faculty ___ Student___Post Doc___Staff___Other

Written Comments:

Indicate your ranking of this candidate: __1; __2; __3; __4; __Unacceptable: (1 = first choice)
Evaluation based on: ____ Seminar
____ Application package
____ Personal contact

Evaluator's Name: _____

(Evaluations will be tallied and assembled but evaluator's name will remain confidential.)

Please return this form to John Jifon

TEXAS AGRICULTURAL EXPERIMENT STATION

BEHAVIOR-BASED STRUCTURED INTERVIEW GUIDE

Interview Guide

Candidate Name: _____

Position Title: _____

Interview Date: _____

Interviewer Name: _____

INTRODUCTION

Behavior based interviewing has been defined by Business Professor Herbert G. Heneman III of the University of Wisconsin-Madison, as, "A thorough, planned, systematic way to gather and evaluate information about what candidates have done in the past to show how they would handle future situations." The key assumption is that candidates who have previously demonstrated a particular behavior to address a situation will repeat that behavior in the future when confronted with a similar set of problems.

The interview guide is designed to utilize a set of structured questions that focus on the key leadership competencies of the candidates. The questions are designed to address the various themes of behavior exhibited by successful incumbents. The candidates will be asked the same questions consistently for evaluation purposes. The goal is to determine if the candidates' future behaviors would lead to job success as predicted by their past experience.

This guide is grouped by two categories of competencies. The Job Competency section will help assess the technical fit of the candidate with the position. The assessment is achieved through discussions of candidate's education and work experience to compare with job requirements. The Leadership Competency section will evaluate candidates on personal traits that are important to the job success. The questions will be structured and behavior based. Each candidate will receive a score of their competencies corresponding with the behaviors demonstrated.

JOB COMPETENCY

To assess the candidate's job related competencies, the following areas shall be considered:

Education: The highest level of education the candidate obtained, courses and/or related knowledge required by the position.
Experience: Overview of candidate's related work experience, including research experience, supervisory experience and general job experience. Details of the candidate's role, responsibilities, achievements and learnings from each experience will help assess the job competency levels.
Fit with the Position: Compare candidate's education and experience background with desired qualifications of the position.
Contribution: Consider the short term and long term goal of the department/unit. Determine how the candidate's knowledge, skills and experience will best contribute to both the short term and long term vision.
Concern: Surface any potential issues and concerns regarding the candidate's background and the fit with the position and the organization.

LEADERSHIP COMPETENCY

Critical Thinking: This area of competency includes assessment of candidate's abilities in strategic planning, problem solving, and creativity.
Resource Management: This area of competency includes assessment of candidate's abilities in resource (both physical and human) allocation, adaptability to change, and ability to manage under stress.
Communication: This area of competency includes assessment of candidate's abilities in influencing others, conflict resolution, and functioning effectively in a diverse environment.
Accountability & Ethics: This area of competency includes assessment of candidate's abilities in taking accountability for work, driving for results, and demonstrating ethical conduct in his/her profession.
People Development: This area of competency includes assessment of candidate's ability in motivating others, coaching and mentoring, and developing others.

JOB COMPETENCY ASSESSMENT

The following section assesses candidates on five dimensions of job competency capabilities. In some cases, questions will need to be developed by the search committee to gain more information about more subjective areas. Use the following ratings for each competency. There is no rating for "Concern"

1 - Perfect Fit
2 - Strong Fit
3 - Marginal Fit
4 - Unacceptable

		Rating
Education	Transfer the educational requirements from the position description and rate each candidate	
Experience	Transfer the experience requirements from the position description and rate each candidate	
Fit With Position	Synthesize the education and experience that each candidate possesses and rate them on how well the committee believes they "fit" with the needs of the job. This category is subjective so a strong link to the requirements in the job description is key.	
Contribution to Goals	Determine how education and experience has prepared the candidate to contribute the short and long term goals of the unit and how quickly they will be able to begin contributing.	
Concern	Document job related concerns but do not rate. Use this section for further discussion.	

Job Competency Evaluation

1 - Perfect Fit
2 - Strong Fit
3 - Marginal Fit
4 - Unacceptable

Candidate Name: _____

Competency Area	Rating
Education	
Experience	
Fit	
Contribution	
Overall	

LEADERSHIP COMPETENCY ASSESSMENT

The following section assesses candidates on five dimensions of leadership capabilities.
Use the following ratings for each competency.

E – Excellent
C – Competent
DN – Development Needed

	Rating (E/C/DN)
Critical Thinking: Identifies and defines problems, probable causes and potential solutions. Examines issues in a broader context and understands how various pieces of information can fit together. Exercises good judgment by making well-informed decisions and brings an objective, unbiased approach to problem solving. Grasps complexities and perceives relationships among problems or issues. Is able to make decisions under uncertainty. Has a vision for future. Anticipates and plans ahead to address future needs and issues. Develops and helps others develop new insights into situations and applies innovative solutions to address unique problems or to gain competitive edge. Creates a work environment that encourages creative thinking and innovation.	

Questions

- Tell me about the worst decision you ever made. (What was the situation? Why was it the worst decision? What made you to make such decision? What did you do when you realize that it was a bad decision? What would you do in the future to avoid making similar mistakes?)
- Give me an example of a time you found a unique solution to a problem. (What was the problem? What was your solution? Why was it unique? How did you come up with such solution?)
- Give me an example of an important goal you set and how you took steps to achieve it. (What was the goal? Why was it important? What steps did you take to ensure you were making progress toward achieving the goal? What was the outcome?)
- Describe the most creative work-related project you have completed. (What was the project? What was the main obstacle of the project? What idea did you come up with to tackle the project? Why was it creative? What was the outcome?)
- Tell me a time when you had to make a case to change the course of your team, department or organization. (Why was it necessary to change? What was your plan? How did you obtain buy-in from others? How did you implement the plan? What was the result?)
- Tell me an example where you helped others to be more creative in solving work-related problems. (What did you do to help others? Why was it creative? What was the outcome?)

Notes

E – Excellent
C – Competent
DN – Development Needed

	Rating (E/C/DN)
Resource Management: Demonstrates sound planning, coordinating, organizing and scheduling. Defines work tasks, arranges people and other resources to best accomplish the tasks. Develops networks, builds alliances, and collaborates across boundaries to leverage resources. Is able to rally support to accomplish plans. Adapts behavior or work methods in response to new information, changing conditions or unexpected obstacles. Deals effectively with pressure. Maintains focus and intensity and remain optimistic and persistent, even under adversity.	

Question

- Tell me about a time when an emergency caused you to reschedule your work/projects. (What was the emergency situation? How did it impact your work/project? How did you make your decision to change your schedule? What did you do? What was the outcome?)
- Tell me about the last time pressure led you to a poor decision or mistake. (What was the situation? What decision did you make? Why was it a poor decision? What did you learn from that experience?)
- Describe a time when you were responsible for managing multiple and even competing priorities. (What was the situation? How did you decide what to do? What obstacles did you have to overcome? What was the result?)
- Tell me about a time when you started on a project/task and discovered that you did not have enough resources to complete the project. (What was the project? What resource problem did you have? What did you do? What was the result?)
- Give me an example when you had to seek out help from others with resources to accomplish your project. (What was the situation? What resources issues did you have? What did you do to get help from others? What was the outcome?)
- Describe a project you had to accomplish with limited resources. (What was the situation? What impact did the limited resources have on your project? What steps did you take to work with the existing resources and accomplish the project?)

Notes

E – Excellent
C – Competent
DN – Development Needed

	Rating (E/C/DN)
Communication: Respects, understands, values and seeks out individual differences to foster mutual understanding. Is able to persuade and influence others through consensus building. Shares information with others and gains cooperation from others to achieve a common goal. Proactively and effectively manages and resolves conflicts, confrontations and disagreements. Fosters mutual respect and professionalism in the workplace. Facilitates an open exchange of ideas and fosters an atmosphere of open communication and win-win situations. Works well in a team environment. Has the ability to guide the group process, and is sensitive to group dynamics, conflict situations, and controversial ideas. Balances the need for goal achievement and group development.	

Question

- Describe a situation in which you were able to "read" another person effectively and guide your actions by understanding of his/her individual needs or values. (What was the situation? Why was it necessary to understand the other person's needs? How did you "read" the other person? What was the outcome? What enabled you to effectively "read" other people?)
- Describe a situation in which you were able to positively influence the actions of others in a desired direction. (What was the situation? Why would you need to influence others to a different direction? What were the obstacles you needed to overcome? How did you do it? What was the reaction from others? What was the outcome?)
- Tell me about a time you had to manage a conflict at work. (What was the situation? What was your approach? What was the outcome? What did you learn from it?)
- Tell me about a time when you led a group work more effectively together. (What was the situation? Why wasn't the group working effectively? What was your role? How did you help the group improve? What was the result?)
- Describe a time when you had a point of view that was substantially different from the rest of the group. (What was the situation? What was the difference between your opinion and the others? How did you make your point across? What did you do in this situation? What was the outcome?)
- Tell me an example when you worked in a diverse group. (How was the group diverse? What team dynamics did you observe? What challenges did the difference present to the team? How did the team operate as a result? What did you do to work effectively with the team? What was the outcome? What did you learn from the experience?)

Notes

E – Excellent
C – Competent
DN – Development Needed

	Rating (E/C/DN)
Accountability & Ethics: Is able to set goals, establish priorities and monitor progress in order to deliver results. Holds self and others accountable for results and responsibilities. Routinely sets personal and professional goals and continuously seeks new ways to add value to the organization. Defines and practices ethical behavior in difficult situations.	

Question

- Describe a situation where you took personal responsibility to ensure an important project/task gets accomplished. (What was the situation? Why was the project/task important? What was your role? What steps did you take to ensure the project/task gets accomplished?)
- What do you consider the most important contributions you made to your current organization? (What was the situation? What was your role? Why was the contribution important?)
- Tell me the most difficult work challenge that you had to overcome in the last few years. (What was the challenge? Why was it difficult? What did you do to overcome? What was the result? What did you learn from that experience?)
- What are some things that are critically important to you that you consider them your personal standards or code? (What are the things you would not comprise on? How would you communicate such code with others?)
- Have you ever encountered any difficult ethical dilemma at work? (What was the situation? How did you decide what choice to make? Did you consider other alternatives? What was the result?)
- Give me an example when you needed to ensure the accountability of a project that you were involved with. (What was the situation? How did you assign accountability? What steps did you take to hold everyone accountable? What was the result?)

Notes

E – Excellent
C – Competent
DN – Development Needed

	Rating (E/C/DN)
People Development: Inspires, motivates and guides a shared vision and accomplishment of goals. Promotes high levels of learning and involvement for other individuals. Consistently challenges, coaches, counsels and helps improve individual and team performance. Provides frequent and constructive development discussions and feedback. Encourages a participative approach to work and fosters cooperation, pride, dialogue and trust. Champions and leverages diversity in the workplace.	

Question

- Give me an example of someone who has become more successful under your mentoring and development? (What was the relation between you and the person? What steps did you take to develop the person? What advancement has this person made?)
- Tell me about your experience of motivating someone to improve their knowledge and skill base. (What was the situation? What was your relationship with this person? What did you do to motivate this person? What was the result?)
- Tell me about a time when you had to give negative feedback to someone. (What was the situation? How did you deliver the feedback? How was it received? What was the result?)
- Describe your most challenging experience in dealing with people. (What was the situation? What did you do? What was the result? What did you learn from that experience?)
- Give me an example when you gathered a diverse group of people to solve a problem. (What was the problem? How was the group diverse? What was your role? What was the result?)
- Tell me a time when you led a team of people working toward a common goal. (What was the situation? How did you encourage participation? What obstacles did you encounter? What was the result?)

Notes

Other Questions and Comments

Interview Evaluation

E – Excellent
C – Competent
DN – Development Needed

Candidate Name: _____

Competency Area	Rating
Critical Thinking	
Resource Management	
Communication	
Accountability & Ethics	
People Development	
Overall	

Interview Consensus Form

Name of the Candidate: _____

Position applied for: _____

Job Competency Rating: 1—5 (1= Least. 5= Most)
Leadership Competency Rating:

E – Excellent
C – Competent
DN – Development Needed

	Job Competency				**Leadership Competency**				
Interviewer	**Education Rating**	**Experience Rating**	**Fit Rating**	**Contribution Rating**	**Critical Thinking**	**Resource Management**	**Communication**	**Accountability & Ethics**	**People Development**
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

Concern

Overall Ranking: _____

INTERVIEW QUESTIONS
ASSISTANT PROFESSOR – PLANT MOLECULAR BIOLOGY

Candidate: _____ Date: _____

Review Education.

Review career progression. Year of experience: _____

Name 3 things you like and dislike about your current position.

What aspect of this position attracts you the most? Why did you apply?

What did you do to prepare for this interview? What research did you do on our organization?

Add job related and science related questions….. Also questions regarding grants…

What do you feel is your greatest strength?

What area do you feel you need to improve (weakness)?

What specific goals have you established for your career? Short-term; Long-term.

What is your greatest career accomplishment and why?

When have you failed? Describe the circumstances and how you dealt with and learned from the experience.

When we contact your current and previous supervisors what will they say about you? What would your co-workers say? (include both positive and negative…)

Tell us about a situation that you wished you would have handled differently based on the outcome?

What do you think it takes to be successful in this career?

What would you have to accomplish in your career for you to feel that you've been truly successful?

What is the most important thing you contribute to any organization? Give an example on a significant contribution you made at your current organization.

What makes you stand out from the other candidates that we will interview for this opening?

Review salary requirements and timeframe to relocate if the position was offered.

What else should we know about you?

What questions do you have for us?

Give an assignment…

Candidate: _____ Date: _____

Notes:

Pros –

Cons -

R a t i n g

1 2 3 4 5 6 7 8 9 10

From: Pamela White
To: wlr@tamu.edu
Subject: INTSORMIL - Years 4 & 5
Date: Thursday, August 20, 2009 8:43:01 AM
Attachments: Year Four.xls
Importance: High

** High Priority **

Good Morning Dr. Rooney:

I am working on the budget/routing for the INTSORMIL Continuation Proposal. Attached is a preliminary budget. Quick question - is the graduate student one student who will work on the project 25% time on behalf of El Salvador and 25% time on behalf of Nicaragua for a total of 50% time, 9 months? Also, I took tuition out of the US category since the grad. student was not budgeted there. It made a difference in the figures. Please just look this over and let me know what changes you wish to make.

Thanks,
Pam

Pam White
Senior Proposal Administrator I
Texas A&M Research Foundation
400 Harvey Mitchell Parkway South
Suite 100
3578 TAMU
College Station, TX 77845
(979) 845-6273
(979) 862-3250 (fax)
E-mail: pwhite@rf-mail.tamu.edu
http://rf-web.tamu.edu

Texas A&M Research Foundation
RF# 0902141
YEAR FOUR

Project Dates: 9/30/2009 - 9/29/2010

DIRECT COSTS	US	on behalf of El Salvador	on behalf of Nicaragua	TOTAL
Salaries				
William Rooney Principal Investigator 11% Time, 12 Cal Mo.	0	0	0	0
To Be Named Graduate Student 50% Time, 9 Cal. Mo.	0	10,000	10,000	20,000
Student Workers Hourly As Needed	5,654	0	0	5,654
Subtotal	5,654	10,000	10,000	25,654
Total Salaries and Wages	5,654	10,000	10,000	25,654
Fringe Benefits	548	1,839	1,839	4,226
Total Personnel Costs	6,202	11,839	11,839	29,880
Materials & Supplies	15,000	2,500	2,500	20,000
Travel	5,000	0	0	5,000
Modified Total Direct Costs (MTDC)	26,202	14,339	14,339	54,880
Tuition - $344/hr x 18 hrs	0	3,096	3,096	6,192
Total Direct Costs	26,202	17,435	17,435	61,072
INDIRECT COSTS				
Indirect Costs MTDC *45.5%	11,922	6,524	6,524	24,970
TOTAL PROJECT COSTS	$38,124	$23,959	$23,959	86,042

Medical & Fringe Calculations

Monthly	FTE Salary	Mon. Ins	Actual %	Months	Name	Fringe Benefits			
						Year 1	Year 2	Year 3	Total
10,788.75	$129,465	659	0%	12	Rooney	0	0	0	0
4,444.58	$53,335	386	25%	9	Grad Student	0	1839	1839	3678
					Student Workers	548	0	0	548

From:	Kimberly Christiansen
To:	gejeta@purdue.edu; hamakerb@purdue.edu; g-peterson1@tamu.edu; gpeterso@ag.tamu.edu; wlr@tamu.edu; bpendleton@mail.wtamu.edu
Subject:	INTSORMIL 2009 Request for Annual Regional Project Reports
Date:	Tuesday, September 15, 2009 3:33:39 PM
Attachments:	WNon-Degree Programs.doc WDegree Programs.doc WBuyins.doc 2009AnlRptGuidelines - Regional.doc

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Date: September 15, 2009

To: INTSORMIL Regional Coordinators

Subject: Request for Annual Regional Project Reports (September 30, 2008 – September 29, 2009)

It is once again time to submit your regional reports. **Reports are due November 2, 2009.**

Forms and guidelines are attached, but you may also access the Guidelines and Reporting Forms through the INTSORMIL web site, please go to http://intsormil.org/smformsreports.htm and you will find all the required forms available in PDF and Microsoft Word formats as applicable.

Please follow the instructions on each form. On the Degree and Non-Degree Training Forms, please provide us with complete and accurate information for each section of the form. It is crucial that you provide the individual's name and a **permanent address** for all students and trainees. Please make sure to list all conferences/workshops that you have sponsored in your region.

Please submit your report via e-mail. Graphs should be submitted as either.jpg, .bmp, or .tif format. The report should be single spaced and no more than fifteen (15) pages. If you, or your report preparer, have any questions please contact Ms. Kimberly Christiansen by phone at (402) 472-6032 or e-mail at kchristiansen2@unl.edu.

Attached forms:

Regional Report Guidelines
Degree Programs (September 30, 2008 – September 29, 2009)
Non-Degree Programs (September 30, 2008 – September 29, 2009)
Buyins (September 30, 2008 – September 29, 2009)

INTSORMIL Regional Program
Annual Regional Report Guidelines

Year 3, September 30, 2008 through September 29, 2009

All reports should be **SINGLE SPACED** and **NO LONGER THAN 15 PAGES** (MS Word or WordPerfect format) **submitted by e-mail**.

Table/graphs must be submitted as **.jpg, .bmp, or .tif file format.**

The format should be as follows:

Name of Region, Name and Address of Regional Coordinators

Describe the Collaborative Program (Regional Program Description)

The way the program is organized, managed and implemented. Stress the interdisciplinary and multi-institutional nature of the site program.
Discuss financial inputs from local USAID Missions and other sources of funding and how managed. What do these resources allow the program to do.
Discuss collaboration with International Centers and other organizations.
Discuss how jointly developed collaborative research plans of work are planned and organized.

Sorghum/Millet Constraints Researched

Discuss sorghum/millet production and utilization constraints.
Research Methods (Research by Regional Program PIs as appropriate).
Discuss one or two examples of research progress findings and results with sorghum/millet production and/or quality and utilization improvement.
Discuss mutuality of research benefits to the Regional Program and U.S.

Institution Building

Research equipment, vehicles, reference books and research support funds provided for sorghum/millet research from the regional program budgets (INTSORMIL and USAID Mission).
Discuss examples of INTSORMIL trained regional program researchers who have returned to their home country and the position they hold.
Discuss Regional Program sorghum/millet scientists who have visited U.S. institutions.
Sorghum/Millet Scientists who have been in the region during the year.
Human resource development strategy. (Degree and Non-Degree Programs.)

Networking

Workshops and Meetings
Research Investigator Exchanges
Research Information Exchange
Germplasm Conservation and Distribution (if applicable)
How are research results spread among researchers in-country, to other countries and to organizations that work with farmers?

Research Accomplishments

Discuss research accomplishments at the regional program sites.

Executive Summary Information

Contrast of activities planned for the reporting period and activities accomplished.
Brief review of program and problems to date and discussion of technical and managerial issues significant to the success or failure of this project.
Discuss major achievements for this reporting period, as appropriate, under each of the seven major objectives, i.e., supply chain/market development, nutrition health and grain quality, ICSM, IPM, genetic enhancement, genetic resources and biodiversity, and partnerships and networking.
Discuss progress against benchmarks and indicators and throughputs.

Table 1. Objectives, notional targets, benchmarks and indicators, throughputs, and milestones

Objectives	Targets	Benchmarks and Indicators	Throughputs	*Milestones*
1. Supply chain/market development	- Increased yields and incomes - Increased pearl millet quality -Increased use of sorghum as a feed source	- Increased farmer incomes - Increase in production area - Elimination of tannin in feed–type cultivars	- Farmer incomes increased by 30% - Farmer incomes increased by 20% - 200% increase in markets for sorghum as a feed source	*- 15% increase by Yr 3 and 30% by Yr 5* *- 5% increase by Yr 3 and 20% by Yr 5* *- 60% increase by Yr 3 and 200% by Yr 5*
2. Nutrition, health and grain quality	-Higher grain quality cultivars -New cultivar acceptance - Increased nutrition of food and feed products	- High digestibility cultivars selected - Widespread adoption of cultivars - High starch digestibility cultivars developed	- 10 high grain quality varieties developed - 60% of farmers accept new cultivars - Nutritional deficiencies n diets decreased by 25%	*- 4 varieties released by Yr 3 and 10 by Yr 5* *- 20% of farmers accept new cultivars by Yr 3 and 60% by Yr 5* *- 10% decrease by Yr 3 and 25% by Yr 5*
3. ICSM	- Increased and stable grain yields - Improved crop, soil and water management	-ICSM components identified - Integration of ICSM components into packages	- 30% yield increase due to ICSM adoption - 70% of farmers using ICSM practices	*- 10% increase by Yr 3 and 30% by Yr 5* *- 25% using ICSM practices by Yr 3 and 70% by Yr 5*
4. IPM	-Increased grain quality - Efficient pest management tactics -Reduced pesticide use	- Tolerance to grain insects, pathogens - IPM packages developed - Non-pesticidal strategies developed	- 20% decrease in insect-damaged grain - 4 varieties with insect resistance released - 50% decrease in kg pesticide used/ha	*- 5% decrease by Yr 4 and 20% by Yr 5* *- 1 variety released by Yr 3 and 4 released by Yr 5* *- 20% decrease by Yr 3 and 50% by Yr 5*
5. Genetic enhancement	-Stable yielding genotypes -More efficient water use by genotypes -More efficient nutrient use by genotypes	- Genotypes with less variation in yields - Decrease in drought damage - Savings in fertilizer costs	- 6 stable yielding genotypes released - 10 drought tolerant genotypes released - 4 N efficient genotypes released	*- 2 genotypes released by Yr 3 and 6 by Yr 5* *- 4 genotypes released by Yr 3 and 10 by Yr 5* *- 1 genotype released by Yr 3 and 4 by Yr 5*
6. Genetic resources and biodiversity	-Higher yielding genotypes -Conservation of genetic biodiversity	- Selection of high yielding genotypes - Decrease in rate of loss of biodiversity sensitive areas	- 25% increase in yield of new genotypes - 20% decrease in use of biodiversity sensitive areas due to increased yields	*- 10% increase in yield by Yr 3 and 25% by Yr 5* *-5% decrease in use of biodiversity sensitive areas by Yr 3 and 20% by Yr 5*
7. Partnerships and networking	*- Increased joint programs with partners*	*- Networks established involving all stakeholders (private industry, NGOs, farmers, international agencies, CG centers, research and technology transfer agencies)*	*- High research throughputs and high level of technology transfer activity*	*- 20% increase in grain production and 75% of farmers using best management practices by Yr 5*

INTSORMIL

Year 3 Activities Supported by Non-CRSP Funding

Principal Investigator _____ **Project No.** _____ **September 30, 2008 – September 29, 2009**

Project Title	**Objective of Project**	**Donor/Sponsor**	**Funding Level** **Current Year**	**Life of Project**	**Start and End Dates**
EXAMPLE					
Grain Sorghum Entomology Research	Increase availability of insect resistant sorghums	Rockefeller Found	$10,000	$40,000	9/1/07 - 8/30/08

09/09

INTSORMIL

Year 3 Degree Programs

Principal Investigator _____ Project No. _____ September 30, 2008 – September 29, 2009

Name and Permanent Home Address	Country of Citizenship	Gender	Institution/ Advisor	Beginning and Ending Dates of Degree Program	Purpose of Degree/ Discipline	* Degree	** Funding Type I / P
EXAMPLE: Nouri, Maman INRAN/Maradi BP 429 Niamey, NIGER	Niger	M	Univ of Nebr/Steve Mason	8/07 – 5/08	Crop production/ Agronomy	Ph.D.	I

* **B.S.**, **M.S.**, **Ph.D. = Degree training**

** **I = INTSORMIL funded research assistantship**
P = Partial monetary or research support on INTSORMIL project

INTSORMIL

Year 3 Non-Degree Educational Program

Principal Investigator _____ Project No. _____ September 30, 2008 – September 29, 2009

Name and Permanent Home Address	Country of Citizenship	Gender	Program Site	Date of Program	Name of Conference/Workshop	* Type of Program	** Funding Type I / P
Example							
Mohamed Santini 141 Great Way Brucker, Ghana	Ghana	M	Baton Rouge, Louisiana	2-07 to 2-08	International Workshop on Sorghum and Pearl Millet Breeding	CW	I

***VS = Visiting scientist, i.e., peer scientists, sabbatical leaves, and short-term research programs.**
***PD = Post Doctoral**
***CW = Anyone supported from INTSORMIL project funds attending conferences and/or workshops**

****I = INTSORMIL funded research assistantship**
****P = Partial monetary or research support on INTSORMIL project**

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From:	Kimberly Christiansen
To:	wlr@tamu.edu; bpendleton@mail.wtamu.edu; hamakerb@purdue.edu; Charles S Wortmann; David S Jackson; gejeta@purdue.edu; Jeff.Wilson@ars.usda.gov; jhancock@ksu.edu; jfl@ksu.edu; jsander1@purdue.edu; lrooney@tamu.edu; erbaugh.1@osu.edu; drmitch@purdue.edu; vara@ksu.edu; sstaggen@ksu.edu; g-peterson1@tamu.edu; gpeterso@ag.tamu.edu; larson.4@osu.edu
Cc:	adillwor@purdue.edu; plittlej@tamu.edu
Subject:	INTSORMIL 2009 Request for Annual Project Reports
Date:	Tuesday, September 15, 2009 3:36:58 PM
Attachments:	2009AnlRptGuidelines - Project.doc WDegree Programs.doc WBuyins.doc WNon-Degree Programs.doc

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Please note that reports are due November 2, 2009. Thanks.

Date: September 15, 2009

To: INTSORMIL Principal Investigators

Subject: Request for Annual Project Reports (September 30, 2008 – September 29, 2009)

It is once again time to submit your Annual Project reports. **Reports are due November 2, 2009.**

Forms and guidelines are attached, but you may also access the Guidelines and Reporting Forms through the INTSORMIL web site, please go to http://intsormil.org/smformsreports.htm and you will find all the required forms available in PDF and Microsoft Word formats as applicable.

Please follow the instructions on each form. On the Degree and Non-Degree Training Forms, please provide us with complete and accurate information for each section of the form. It is crucial that you provide the individual's name and a **permanent address** for all students and trainees.

Please submit your report via e-mail. Graphs should be submitted as either.jpg, .bmp, or .tif format. The report should be single spaced and no more than ten (10) pages. If you, or your report preparer, have any questions please contact Ms. Kimberly Christiansen by phone at (402) 472-6032 or e-mail at kchristiansen2@unl.edu.

Attached forms:

Project Report Guidelines
Degree Programs (September 30, 2008 – September 29, 2009)
Non-Degree Programs (September 30, 2008 – September 29, 2009)
Buyins (September 30, 2008 – September 29, 2009)

INTSORMIL
Annual Project Report Guidelines

Year 3, September 30, 2008 through September 29, 2009

All reports may be **SINGLE SPACED** and **NO LONGER THAN TEN (10) PAGES** **(IN WORD OR WORD PERFECT FORMAT)** **submitted by e-mail**.

Tables and/or graphs must be submitted as **.jpg, .bmp, or .tif file format.**

The annual report format should be as follows:

Project Number, Title and Principal Investigator

Collaborating Scientists

Name, title and **COMPLETE ADDRESS**. (Regional Program and U.S.). Collaborating Scientists must be intimately involved in the achievement of your project objective. Other "cooperating" scientists can be mentioned in the networking section.

Introduction and Justification

This should be a brief **ONE PAGE OR LESS SUMMARY OF PROJECT ACTIVITY**. It should be written using non-specific terms as much as possible. Stress the **MAJOR ACHIEVEMENTS AS THEY RELATE TO WORKPLAN OBJECTIVES, AND OBJECTIVES, TARGETS, BENCHMARKS AND INDICATORS, AND THROUGHPUTS OF THE INTSORMIL STRATEGIC PLAN.** How will proposed activities contribute to achieving INTSORMIL goals. (Table 1)

Objectives and Implementation Sites

Include relationship to INTSORMIL Objectives and Targets. (See Work Plan)

Research Methodology and Strategy

Description for meeting objectives.
Description of proposed interdisciplinary team.

Research Results

Discussion of research results.
Achievement of activities proposed in Work Plan.
Relationship and contribution to INTSORMIL Strategic Plan objectives, targets, benchmarks and indicators as proposed in Work Plan.
Reasons why goals not met.

Training (Degree and Non-Degree)

Two separate pages are attached, one for DEGREE students and one for NON-DEGREE students. Fill in the requested information and return to the ME office with your annual report. **INCLUDE PARTICIPANTS PERMANENT HOME COUNTRY ADDRESS.**

Networking Activities

Workshops and meetings.
Research investigator exchanges
Research information exchange.
Germplasm conservation and distribution (if applicable).

Publications and Presentations

Publications will be categorized as shown below. List only publications relating to INTSORMIL and published during this cooperative agreement. List alphabetically by surnames of the authors. Format is shown on the following page.

Journal Articles
Books, Book Chapters and Proceedings
Dissertations and Theses
Miscellaneous Publications
Abstracts

“Bullet” or Project Highlight

(Example) “In 2007-2008 INTSORMIL project “X” developed and released “Technology, i.e., hybrid pest management practice, food product, etc., which will be/is used by most (%) growers in “X” country.” Emphasize the objective area, indicator, throughputs and milestones achieved.

Executive Summary Information

Contrast of activities planned for the reporting period and activities accomplished.
Brief review of program and problems to date, and discussion of technical and managerial issues significant to the success or failure of this project.

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Publication Examples

Abstracts

Barwale-Zehr, U. and J.D. Axtell. 1993. Genetic analysis of mutable phenotype associated with candy stripe sorghum. Agron. Abstr. p. 172. Amer. Soc. of Agron., Cincinnati, Ohio.

Journal Articles - Peer reviewed articles should be either published or accepted for publication, **not submitted for publication.**

Mengel, D.B. and S.A. Barber. 1974. Rate of nutrient uptake per unit of corn root under field conditions.

Books, Book Chapters and Proceedings

Books

Lindsay, W.L. 1979. Chemical Equilibria in Soils. Wiley-Interscience, New York, N.Y.

Book Chapter

Cox, F.R. and E.J. Kamprath. 1972. Micronutrient soil test. In J.J. Montvedt, P.M. Giordana and W.L. Linday (Eds.). Micronutrients in Agriculture, Soil Science Society of America, Madison, WI. Pp. 289-317.

Proceedings - Include page numbers, editor(s), title, location and dates, publisher name and location.

Chang, C.H. and S.R. Smith. 1985. Nutrient flux mechanisms in soil. Pp. 61-95. In J.L. John and J.R. Sims (eds.). Nutrient availability proc. workshop. International Crop Research Inst. Beckley, WV. November 30-December 1, 1984. Hillcrest, Morgantown, U.S.

Dissertations and Theses - Include dissertation abstract number if available)

Rajan, F.C. 1981. Phosphorous transformation in acid soils. Ph.D. dissertation. Valley State University, Valley, WV. (Diss. Abst. 86-2544).

Miscellaneous Publications

Waaleigh, C.H. 1968. Wastes in relation to agriculture and forestry, USDA Misc. Publ. 1065. U.S. Gov. Print. Office, Washington, D.C.

Table 1. Objectives, notional targets, benchmarks and indicators, throughputs, and milestones

Objectives	**Targets**	**Benchmarks and Indicators**	**Throughputs**	***Milestones***
1. Supply chain/market development	- Increased yields and incomes - Increased pearl millet quality -Increased use of sorghum as a feed source	- Increased farmer incomes - Increase in production area - Elimination of tannin in feed–type cultivars	- Farmer incomes increased by 30% - Farmer incomes increased by 20% - 200% increase in markets for sorghum as a feed source	*- 15% increase by Yr 3 and 30% by Yr 5* *- 5% increase by Yr 3 and 20% by Yr 5* *- 60% increase by Yr 3 and 200% by Yr 5*
2. Nutrition, health and grain quality	-Higher grain quality cultivars -New cultivar acceptance - Increased nutrition of food and feed products	- High digestibility cultivars selected - Widespread adoption of cultivars - High starch digestibility cultivars developed	- 10 high grain quality varieties developed - 60% of farmers accept new cultivars - Nutritional deficiencies in diets decreased by 25%	*- 4 varieties released by Yr 3 and 10 by Yr 5* *- 20% of farmers accept new cultivars by Yr 3 and 60% by Yr 5* *- 10% decrease by Yr 3 and 25% by Yr 5*
3. ICSM	- Increased and stable grain yields - Improved crop, soil and water management	-ICSM components identified - Integration of ICSM components into packages	- 30% yield increase due to ICSM adoption - 70% of farmers using ICSM practices	*- 10% increase by Yr 3 and 30% by Yr 5* *- 25% using ICSM practices by Yr 3 and 70% by Yr 5*
4. IPM	-Increased grain quality - Efficient pest management tactics -Reduced pesticide use	- Tolerance to grain insects, pathogens - IPM packages developed - Non-pesticidal strategies developed	- 20% decrease in insect-damaged grain - 4 varieties with insect resistance released - 50% decrease in kg pesticide used/ha	*- 5% decrease by Yr 4 and 20% by Yr 5* *- 1 variety released by Yr 3 and 4 released by Yr 5* *- 20% decrease by Yr 3 and 50% by Yr 5*
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7. Partnerships and networking	*- Increased joint programs with partners*	*- Networks established involving all stakeholders (private industry, NGOs, farmers, international agencies, CG centers, research and technology transfer agencies)*	*- High research throughputs and high level of technology transfer activity*	*- 20% increase in grain production and 75% of farmers using best management practices by Yr 5*

INTSORMIL

Year 3 Activities Supported by Non-CRSP Funding

Principal Investigator _____ **Project No.** _____ **September 30, 2008 – September 29, 2009**

Project Title	**Objective of Project**	**Donor/Sponsor**	**Funding Level** **Current Year**	**Life of Project**	**Start and End Dates**
EXAMPLE					
Grain Sorghum Entomology Research	Increase availability of insect resistant sorghums	Rockefeller Found	$10,000	$40,000	9/1/07 - 8/30/08

09/09

INTSORMIL

Year 3 Degree Programs

Principal Investigator _____ Project No. _____ September 30, 2008 – September 29, 2009

Name and Permanent Home Address	Country of Citizenship	Gender	Institution/ Advisor	Beginning and Ending Dates of Degree Program	Purpose of Degree/ Discipline	* Degree	** Funding Type I / P
EXAMPLE: Nouri, Maman INRAN/Maradi BP 429 Niamey, NIGER	Niger	M	Univ of Nebr/Steve Mason	8/07 – 5/08	Crop production/ Agronomy	Ph.D.	I

* **B.S.**, **M.S.**, **Ph.D. = Degree training**

** **I = INTSORMIL funded research assistantship**
P = Partial monetary or research support on INTSORMIL project

INTSORMIL

Year 3 Non-Degree Educational Program

Principal Investigator _____ Project No. _____ September 30, 2008 – September 29, 2009

Name and Permanent Home Address	Country of Citizenship	Gender	Program Site	Date of Program	Name of Conference/Workshop	* Type of Program	** Funding Type I / P
Example							
Mohamed Santini 141 Great Way Brucker, Ghana	Ghana	M	Baton Rouge, Louisiana	2-07 to 2-08	International Workshop on Sorghum and Pearl Millet Breeding	CW	I

***VS = Visiting scientist, i.e., peer scientists, sabbatical leaves, and short-term research programs.**
***PD = Post Doctoral**
***CW = Anyone supported from INTSORMIL project funds attending conferences and/or workshops**

****I = INTSORMIL funded research assistantship**
****P = Partial monetary or research support on INTSORMIL project**

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From:	Eheinric
To:	baduguma@usaid.gov; wlr@tamu.edu; bpendleton@mail.wtamu.edu; hamakerb@purdue.edu; cwortmann2@unl.edu; djackson@unlnotes.unl.edu; gejeta@purdue.edu; Jeff.Wilson@ars.usda.gov; jhancock@ksu.edu; jfl@plantpath.ksu.edu; jsander1@purdue.edu; lrooney@tamu.edu; erbaugh.1@osu.edu; drmitch@purdue.edu; vara@ksu.edu; sstaggen@ksu.edu; larson.4@osu.edu; gpeterso@ag.tamu.edu
Cc:	john M Yohe
Subject:	INTSTORMIL Program Review
Date:	Friday, October 09, 2009 4:56:10 PM
Attachments:	Milestones 5th Yr.docx

INTSORMIL PIs,

USAID will be appointing an External Evaluation Panel (EEP) to review the INTSORMIL Program in Yr 4. The purpose of the evaluation is to determine whether the agreement will be terminated at the end of the 5th year or whether the agreement will be continued for a second 5 year period. To assist the Panel in their review our AOTR has requested that we submit for each project a list of (1) Program objectives, (2) Targets/indicators for each objective listed and (3) Milestones (what we expect to achieve by Yr 5 (2011) for each target/indicator. This information will be utilized by the EEP as one component of the review. To compile the list I have taken what you have previously submitted (if you have) and tried to select milestones that can be measured by the Panel and which we believe can be achieved. Please review the Milestones on the attached table for your respective project and indicate any changes that you want to make. Where there are "X"s please insert a number. In reviewing your milestones please keep in mind that we want to limit the Objectives and milestones selected to only a few key ones for each project and we need to select milestones that you can document as we have been told to expect random audits by the USAID Inspector General's Office. Thus, if you don't agree with what I have listed for your project please indicate changes and send me your comments by Friday, October 16 at the latest.

Thanks,

Short

E. A. "Short" Heinrichs
Assistant Director, INTSORMIL
Research Professor, UNL Entomology
Consultant, IPM CRSP
Secretary General, IAPPS
email: eheinric@vt.edu
Phone:402-805-4748 (Home)
402-472-6011 (UNL- INTSORMIL)
Skype: short62
IAPPS website: http://www.plantprotection.org/
UNL Ent. website: http://entomology.unl.edu/
INTSORMIL website: http://intsormil.org

2. INDIVIDUAL PROJECT PERFORMANCE AND PRODUCTIVITY

Projection of achievement of Targets/indicators and Milestones of each project in accord with workplans by Yr 5

Project	Program objectives1-8	Targets/ indicators	Milestones (5th year)
Sustainable Plant Protection Systems			
KSU 101 *"Grain molds, mycotoxins and stalk rots of sorghum and millet"* John Leslie, Kansas State University	1. Supply chain/market development	Grain quality improvement by reducing toxin content	Recommendations to manage pathogens developed and disseminated to farmers in their local language
	2. Nutrition, health and grain quality	Identify target toxin-producing fungi which reduce sorghum and pearl millet yield and lower grain quality	List of key toxin-producing fungi in Mali, South Africa and Uganda sorghum and pearl millet developed
	8. Capacity building via short term and degree training	Participants trained in degree programs, Fusarium Laboratory workshops and Scientific Writing short courses.	**X** M.S. and PhD. degrees granted, **X** scientists trained in Fusarium Laboratory workshops and X persons trained in Scientific Writing short courses.
WTAM 101 *"Ecologically based management of sorghum and pearl millet insect pests in Africa and the U.S."* Bonnie Pendleton, West Texas A&M University	4. Develop and disseminate information on the management of biotic stresses to increase grain quality in the field and in storage	Efficient pest management tactics (IPM packages) developed	Four varieties with insect resistance released

		Increased tolerance to grain insects and pathogens in storage	20% decrease in insect-damaged grain in project sites
Sustainable Production Systems			
KSU 104 *"Integrated soil,water, nutrient and crop management strategies for improving productivity in sorghum and millet-based cropping systems"* P.V. Vara Prasad, Kansas State University	3. Increase the stability and yield of sorghum and pearl millet through crop, soil and water management while maintaining or improving the natural resources of soil (land) and water.	Increased and stable grain yields (Integrated Crop and Soil Management [ICSM] components identified).	Identification of ICSM components that would provide 30% yield increase if adopted in project areas. *Baseline*: 980 kg/ha in low production areas.
		Improved crop, soil and water management (integration of ICSM components into packages)	60% of farmers in project areas adopting some components of the ICSM practices
UNL 101 *"Crop, soil and water management to optimize grain yield and quality for value-added markets in eastern & southern Africa"* C. Wortmann, University of Nebraska	3. Increase the stability and yield of sorghum and pearl millet through crop, soil and water management while maintaining or improving the natural resources of soil (land) and water.	Increased and stable grain yields (Integrated Crop and Soil Management [ICSM] components identified).	Identification of ICSM components that would provide 30% yield increase if adopted in project areas in Uganda.
		Improved crop, soil and water management (integration of ICSM components into packages)	50% of farmers in project areas in Uganda adopting some components of the ICSM practices
Germplasm Enhancement and Conservation			
ARS 101	2. Improve the food	Higher grain quality	Ten millet varieties with

"Breeding pearl millet with improved performance, stability, and resistance to pests". Jeff Wilson, USDA	and nutritional quality of sorghum and pearl millet to enhance marketability and health	(high digestibility) cultivars selected	high grain quality developed and released
	6. Genetic resources and biodiversity	Higher yielding genotypes selected	More than 400 African and Indian pearl millet acquisitions will be entered into the U.S. National Plan Germplasm System increasing U.S. holdings by 36%
PRF 101 *"Breeding sorghum with improved resistance to Striga and drought"* Gebisa Ejeta, Purdue University	4. Integrated *Striga* management strategies	Parental sorghum lines with *Striga* resistance developed	**X** parental lines with *Striga* resistance developed and provided to breeders
		Striga resistant varieties adopted by farmers	**X** *Striga* resistant varieties adopted by farmers and resistant varieties grown on **X** acres
PRF 104 *"Developing sorghum for improved grain quality, agronomic performance and resistance to biotic and abiotic stresses"* *Mitch Tuinstra,Purdue University*	2. Improve the food and nutritional quality of sorghum and pearl millet to enhance marketability and consumer health	Higher grain quality (high digestibility) cultivars selected	One ALS-herbicide tolerant food-grade cultivar that can be used as a parent to breed food-grade hybrids
	5. Enhance the stability and yield of sorghum and pearl millet through the use	Stable yielding genotypes released	Four stable yielding genotypes released

	of genetic technologies		
		More efficient water use by genotypes (decrease in drought damage)	Eight drought tolerant genotypes released
TAM 101 *"Breeding sorghum for improved grain, forage quality and yield for Central America"* W. Rooney, Texas A&M University	5. Enhance the stability and yield of sorghum and pearl millet through use of genetic technologies.	Stable yielding genotypes	Four stable yielding genotypes released.
		More efficient water use by genotypes (decrease in drought damage)	Six drought tolerant genotypes released
TAM 102 *"Breeding sorghum for improved resistance to biotic and abiotic stresses and enhanced end-use characteristics for southern Africa"* Gary Peterson, Texas A&M University	4. Develop and disseminate information on the management of biotic stresses in an integrated system to increase grain yield and quality	Efficient pest management tactics packages (IPM packages developed)	Three varieties with genetic resistance to insect released for use in an IPM package in either southern Africa or the U.S.
	5. Enhance the stability and yield of sorghum through the use of genetic technologies	Stable yielding genotypes developed	Five stable yielding genotypes released in southern Africa and the U.S.
Crop Utilization and Marketing			
KSU 102 *"Enhancing the utilization and marketability of sorghum and pearl millet through improvement in grain quality, processing procedures and*	1. Facilitate the growth of rapidly expanding markets for sorghum and pearl millet	Increased use of sorghum as a feed source	A 200% increase in the use of sorghum as a feed source in project areas where there has been little to poultry industry e.g. southern

technology transfer to the poulry industry" Joe Hancock, Kansas State University			Niger. Baseline: $0
	2. Improve the food and nutritional quality of sorghum and pearl millet to enhance marketability and consumer health	Higher grain quality (high digestibility by poultry) cultivars selected	Nutritional deficiencies in poultry diets decreased by 25%
	7.Partnerships and networking	Develop partnerships with relevant stakeholders engaged in the improvement of sorghum and millet production	Networks developed including key feed companies, poultry producers, research scientists and students at institutes in Mali, Burkina Faso, Niger and Nigeria and collaborative research with Nigerien scientists
OSU 101 *"Market development in support of sorghum and millet farmers in Tanzania and Zambia"* J. Mark Erbaugh and Donald Larson	1. Facilitate the growth of rapidly expanding markets for sorghum and pearl millet	Increased farmer incomes	Farmer incomes in project sites increased by 10%
		Increase in markets for sorghum as a feed source	A 25% increase in markets for sorghum as a feed source in project area
	7. Partnerships and networking	Effective partnerships with relevant stakeholders developed	Effective partnerships developed including private industry, farmers' associations, NGOs, CG Centers, technology transfer agencies and national research programs

PRF 102 *"Product and market development for sorghum and pearl millet in West Africa"* Bruce Hamaker, Purdue University	2. Improve the food and nutritional quality of sorghum and pearl millet to enhance marketability and consumer health	High grain quality varieties developed and released	Two high grain quality varieties developed and released
		Increased nutritional quality of sorghum and pearl millet-based foods (high starch digestibility)	Nutritional deficiencies in sorghum-based foods decreased by 10% in project areas
	7. Partnerships and networking	Effective partnerships with relevant stakeholders developed	Working collaboration in Senegal, Mali and Niger with IER, ITA, NGOs e.g. Sasakawa Global 2000, ICRISAT and 10 entrepreneurs (women processing groups) in northern Mali (Mopti/Gao)
PRF 103 *"Development of the input and product markets in West Africa for sorghum and millet"* John Sanders, Purdue University	1.Facilitate the growth of rapidly expanding markets for sorghum and pearl millet	Increased yields and incomes	Yields of sorghum increased from 1.0 t/ha to 1.5 t/ha and millet increased from 0.6 t/ha to 1.3 t/ha in project sites in Mali, Niger and Senegal
		Increased number of participants (farmers) and hectares in demonstration sites in Mali	Number of participants and ha of demonstration plots in Mali to be increased from 1,000 in 2008 to 3,000.
	7. Partnerships and networking	Effective partnerships with relevant	Increased number of collaborators e.g. research

		stakeholders developed	agencies,,extension agencies, NGOs, farmers' associations, millet food producers, poultry industry and feed mixing industry
TAM 103 *"Product and market development for sorghum and pearl millet in southern Africa and Central America"* Lloyd Rooney, Texas A&M University	1. Supply chain/market development	Stimulate the use of sorghum as a substitute for wheat in processed foods in El Salvador	Increased number of bakers using sorghum as a partial substitute for wheat in El Salvador
	2. Nutrition, health and grain quality	Develop and demonstrate the unique attributes of potential Super Health Sorghums to improve the overall image and marketability of sorghum in foods and neutraceuticals	The development of a hybrid/variety with high levels of unique phytochemicals and bioactive compounds with health promoting properties
UNL 102 *"Building a sustainable infrastructure for product development and food entrepreneur/industry technical support: a strategy to promote increased use of sorghum and millet in East Africa"* David Jackson, University of Nebraska	1. Supply chain/market development	Stabilized farmer/family incomes by increasing the number of new food products created and women impacted	Increased number **(X)** of food products developed
			Increased number of entrepreneur **(X)** (women food processors) businesses established or existing entrepreneurs upscaled

From:	Brian Baldwin
To:	leedk@illinois.edu; Vance Owens; wlr@tamu.edu; tvoigt@uiuc.edu
Subject:	"invasive species passing as biofuels"
Date:	Friday, August 28, 2009 5:42:02 PM
Attachments:	Biofuel White Paper-FINAL VERSION.pdf

Gentlemen:

The email below was sent to an associate of mine here at MSU. Anyone working on biofuels should look it over.

Brian Baldwin

The attached is the printable and distributable version of the Biofuels Recommendations that were adopted on Aug. 11, 2009 by ISAC. This is an important accomplishment that was made possible by your hard work. I appreciate the time and attention of all you that provided comments and joined us on the call and here at our offices.

I thank Kelsey Brantley and Delpha Arnold for their help with the Federal Register notice and conducting the meeting. I thank Ken Zimmerman's for his time and skill in running the meeting. NISC staff thanks Tiffany Small of the National Park Service for her essential help with the technical aspects of the call. Rest assured, we will be pestering you again. We are grateful for the thoughtful work of Jamie Reaser, Joe DiTomaso, and Otto Doering for what must have seemed like a Sisyphean challenge. And, I am personally thankful for Wikipedia, without which I would have no idea of how to spell "Sisyphean."

Chris

Chris Dionigi, Ph.D.
Acting Executive Director
National Invasive Species Council (NISC)
1201 Eye Street, N.W. Room 71, Floor 5
Washington, DC 20005
202-513-7243, direct 202-354-1876, fax, 202-371-1751
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Biofuels: Cultivating Energy, not Invasive Species

Approved by the Invasive Species Advisory Committee (ISAC) on August 11, 2009

ISSUE

To provide alternatives to petroleum-based energy, the United States (U.S.) government has mandated a greater proportion of plant-based biofuels be integrated into its energy portfolio. However, **certain plant species being proposed for biofuel production in the U.S. are invasive species or are likely to escape cultivation and become invasive**.

U.S. Executive Order (E.O.) 13112 [1] defines invasive species as "alien [non-native] species whose introduction does or is likely to cause economic or environmental harm or harm to human health" and states:

> "Each Federal agency whose actions may affect the status of invasive species shall, to the extent practicable and permitted by law" "not authorize, fund, or carry out actions that it believes are likely to cause or promote the introduction or spread of invasive species in the United States or elsewhere unless, pursuant to guidelines that it has prescribed, the agency has determined and made public its determination that the benefits of such actions clearly outweigh the potential harm caused by invasive species; and that all feasible and prudent measures to minimize risk of harm will be taken in conjunction with the actions."

The socio-economic and ecological costs of certain biofuel crops could greatly exceed their benefits. Thus, the Federal government needs to take strategic action to avoid inadvertently facilitating the introduction and spread of invasive species through its development, encouragement, funding, or other support of biofuels programs.

ACTION

This briefing paper, adopted by the U.S. Invasive Species Advisory Committee (ISAC) on August 11, 2009, provides:

a) background information on the potential linkages between biofuels and invasive species and;

b) recommendations for Federal action to reduce the risk of invasive species introduction and spread through its biofuels programs. Implementation of these recommendations will help to ensure that the U.S. maximizes the benefits of its biofuel initiatives while preventing the spread of invasive species.

[1] www.invasivespecies.gov (see E.O. 13112 and the ISAC Definitions White Paper)

BACKGROUND

Agency Roles and Responsibilities

Depending on their mission, Federal agencies might engage in biofuel programs by:

- conducting biofuel research and development;
- introducing and producing biofuel crops for experimentation and/or use;
- subsidizing biofuel research, development, production, and marketing;
- purchasing biofuels to supplement their energy demands;
- establishing early detection and rapid response programs for escaped biofuel plants;
- implementing long-term management of biofuel crops that become invasive; and/or regulating various aspects of the biofuels pathway, when necessary.

Policy and Legal Responsibilities

Specific agency directives for biofuel programs are emerging in Federal legislation. For example, the 2007 Energy Independence and Security Act (EISA) mandates the production of 61 billion liters of plant cellulosic-based fuels. This cannot be met with current agricultural, forestry, and municipal residues alone. It necessitates large-scale planting of dedicated energy crops that do not compete with food or feed. This will require producing and promoting biofuel crops for experimentation and demonstration. The U.S. Department of Agriculture's (USDA) research effort is therefore focused on identifying crops that will maximize yield while allowing cultivation on less productive, marginal lands with minimal agricultural inputs. The Food, Conservation, and Energy Act of 2008 (i.e., 2008 US Farm Bill P.L. 110-234) also directs USDA to provide subsidies for growers to encourage adoption of dedicated energy crops which currently do not have a market. The 2008 Energy Act directs the U.S. Environmental Protection Agency (EPA), in consultation with USDA and the Department of Energy (DOE), to report to Congress on the environmental and resource conservation impacts of biofuels

Invasive Species Risk

This paper focuses on one potential negative impact of biofuels, namely the risk that they will escape cultivation and become invasive species. Although most of our food, fiber, and landscape plants are non-native species and relatively few have proven invasive, those that are harmful have caused substantial socio-economic and environmental impacts (e.g., johnsongrass [*Sorghum halepense*] and kudzu [*Pueraria montana*])(Box 1). A number of potentially harmful non-native algal species are being considered for use in the production of biodiesel, renewable biodiesel, and jet fuel (e.g., the toxic freshwater cyanobacteria, *Anabaena circinalis*). (first report due Dec.2010).

Box 1. Economic Impact of Invasive Plants in the U.S.[2]

Estimated losses and the cost of control is $34 billion annually.

- $26.4 billion on agricultural invasives
- $6 billion on pasture invasives
- $1.5 billion on turf and garden invasives
- $0.1 billion on aquatic invasives

[2] Pimentel et al. 2000. *BioScience* 50 53-65. Note: Paper largely addressed managed systems. Additional research is needed for natural areas.

Indications that some biofuel crops pose a particular risk of becoming invasive include:

Certain plant species proposed for biofuel production (e.g., reed canarygrass [*Phalaris arundinacea*], giant reed [*Arundo donax*], and miscanthus [*Miscanthus sinensis*]) are already invasive in regions of the U.S. and/or elsewhere in the world.

Several of the traits that could maximize biofuel crop yield and foster the ability for biofuels to be cultivated in marginal environments can also increase risk of invasiveness. Invasive plants share many of the traits desired in biofuel crops and these traits may allow them to grow on marginal lands (Box 2).

Box 2. Traits that maximize crop yield and increase risk of invasiveness

- Perennial growth form
- Rapid and high aboveground biomass production
- Tolerance of drought, low fertility, or saline soils
- Highly competitive with other vegetation
- Few resident pathogen or insect

The potential scale of biofuel cultivation (>61 million ha) suggests ample opportunity for biofuel crops to be introduced into environments in which they could thrive and interact with ecosystems.

Absent strategic mitigation efforts, there is substantial risk that some biofuel crops will escape cultivation and cause socio-economic and/or ecological harm. If invasion occurs, the costs associated with the damage may negate the economic benefits conveyed by cultivation of the particular species. The risks are particularly significant where biofuel crops are cultivated within ecosystems that include forest, prairie, desert, and wetland areas, as well as rangelands and other agricultural croplands.

RISK MITIGATION AND RECOMMENDATIONS

To minimize the risk of biofuel crop escape into the surrounding environment, the U.S. government needs to employ and promote ecological studies and scientific models that characterize the invasion risk of each biofuel species or cultivar (as appropriate) within a target region and identify ecosystems most susceptible to invasion. Information generated from biofuel crop ecological studies, risk analyses, bioeconomic and climate match modeling, and other methods can guide the government's risk mitigation plans. Depending on their authorities, Federal agencies can take strategic steps at appropriate points within research and development, crop production, harvest and transportation, conversion/refinery practices, and /or regulatory action to minimize the risk of biofuel crops becoming invasive. ISAC recommends that the Federal government apply the following recommendations to its own biofuels programs, as well as use them as a basis for standards of operation when engaging with the private sector and other partners.

Recommendation #1. Review/Strengthen Existing Authorities.

Identify Federal authorities relevant to biofuels. Determine their likely influence on biofuel invasiveness (i.e., prevention or facilitation). Identify gaps and inconsistencies in authorities within and among Federal Departments or Agencies. As appropriate, develop policies and programs to minimize invasion risk.

Recommendation #2. Reduce Escape Risks.

In order to determine potential biofuel benefits and risks, the invasive potential of each candidate biofuel crop needs to be evaluated in the context of each region proposed for its production. Use/promote species (including unique genotypes) that are not currently invasive and are unlikely to become invasive in the target region. Choose species or cultivars with a low potential for escape, establishment and negative impact. Where appropriate, implement mitigation strategies and plans to minimize escape and other risks.

Recommendation #3. Determine the Most Appropriate Areas for Cultivation.

Ideally, biofuel crops should be propagated in containable systems (e.g., terrestrial or aquatic sites constructed specifically to cultivate biofuel crops) and be unable to survive outside of cultivation. Use research findings to identify the most appropriate sites (e.g., unlikely to impact sensitive habitat or create disturbances that will foster invasion) for cultivation of biofuel crops within landscapes. Support for biofuel research and demonstration projects will require site selection that minimizes the potential escape of plant species or cultivars to sensitive areas and the loss of wildlife habitat.

Recommendation #4. Identify Plant Traits that Contribute to or Avoid Invasiveness.

Incorporate desirable traits (e.g., sterility or reduced seed production, inability to regenerate by stem fragments) into biofuel varieties to minimize their potential for invasiveness. Use information from plant research, agronomic models, and risk analyses to guide breeding, genetic engineering, and variety selection programs.

Recommendation #5. Prevent Dispersal.

Develop and coordinate dispersal mitigation protocols prior to cultivation of biofuel plants in each region or ecosystem of consideration. Implement a comprehensive plan, appropriate to the specific crop, throughout the cultivation period. Examples of dispersal mitigation measures include the use of sterile cultivars, species not likely to genetically mix with other plants (different species or cultivars), harvesting prior to seed maturity, cleaning equipment, and minimizing propagule dispersal throughout the biofuel production cycle.

Recommendation #6. Establish Eradication Protocols for Rotational Systems or Abandoned Populations.

Proactively develop multiple year eradication protocols to plan for the rapid removal of biofuel crops if they disperse into surrounding areas or become abandoned or unwanted populations (e.g., those which persist beyond desired crop rotation period).

Recommendation #7. Develop and Implement Early Detection and Rapid Response (EDRR) Plans and Rapid Response Funding.

Develop EDRR plans that cover multiple years to eliminate or prevent establishment and spread of escaped invasive populations. A flexible funding source needs to be in place to support EDRR efforts.

Recommendation #8. Minimize Harvest Disturbance.

Disturbed environments are especially prone to plant invasion. Minimize the soil disturbance resulting from biofuel harvest by rapidly replanting, using cover crops, or employing other methods that will prevent the potential for future invasion of non-native plants from the surrounding area into the harvested site.

Recommendation #9. Engage Stakeholders.

Identify and employ cooperative networks (e.g., working groups and councils), communication forums, and consultation processes through which the Federal agencies can work with state agencies, tribes, the private sector, and other stakeholders to reduce the risk of biological invasion via the biofuels pathway.

From: Kim W Labar
To: Karen L Prihoda; Bill L Rooney
Subject: Inventory
Date: Tuesday, August 04, 2009 2:44:42 PM
Attachments: inventory.doc
wlrooney.pdf

Please see attached

AgriLIFE RESEARCH & EXTENSION
Texas A&M System

TEXAS A&M UNIVERSITY

COLLEGE OF AGRICULTURE
AND LIFE SCIENCES

Department of Soil and Crop Sciences

August 4, 2009

MEMO TO: Soil & Crop Sciences Faculty

FROM: Judy Young

SUBJECT: Inventory

Attached is your inventory list. Please review the list and locate all items listed. The State Comptroller states that the inventory is to be **VERIFIED BY TWO** people and one of these has to be someone other than the person responsible for the equipment, which means no responsible person and his/her tech can do the inventory together. It is encouraged that lab inventories be certified by someone other than the responsible person and his/her technicians. Both must sign the inventory sheet at the end of the numerical, group, or building listing and return it to me. Please note that accuracy of your equipment is of great importance with emphasis on **LOCATION CODES & ROOM NUMBERS** being correct.

Kristen Richardson and Kim Labar will be coming by to verify your inventory with you. Please call to arrange a time for either of them to come by. It must be completed, corrected, signed, and returned to me by August 21, 2009. If you do not call to make an appointment, one will be assigned to you.

Please let me know if you have any questions.

Attachments

Cc: David Baltensperger

Heep Center, 370 Olsen Boulevard
2474 TAMU
College Station, Texas 77843-2474

Tel. 979.845.3041
Fax. 979.845.0456
http://soilcrop.tamu.edu

TEXAS AGRILIFE RESEARCH
Inventory Verification List
as of 07/02/2009

SORTED BY GROUP ==> WLR
DEPARTMENT = SCSC SUB DEPT = SOIL & CROP SCIENCES
ALT APO RHODES, CAROL

Asset No / Description	CP	Serial Number	Make / Model Number	Dept Acq Date	Mth	Rest	Own	Class	Total Cost Purch	Total Cost Voucher	Group	---- VERIFY THIS INFORMATION ---- Camp	Bldg	Room	Other Location	Source	Cnd
00-0-0087393 01 TRACTOR JOHN DEERE 2240 S/N 427717			 	SCSC 05/01/82	PO	I TAES		842507 45254	13,566.78		02 WLR	01002	3			SO	N1
00-0-0100594 01 UTILITY TRAILER 2 WHEEL 6 X 12 1996		432111218T1003893	FALCON SA121	SCSC 01/08/98	PO	I TAES		579912 202090	700.00	0630540	02 WLR	00001	FSC			DS	N1
00-0-0114255 01 GMC 1995 SAFARI PASS VAN		1GKDM19W9SB510118	GMC L# 666-440 VEH# 227	SCSC 11/04/94	PO	I TAES		841003 203104	18,842.00	0315906	02 WLR	00001	PARKING LOT 80			DS	N1
00-0-0119808 01 CHEVROLET 1999 P/U		1GCGC29J1XF027650	CHEVROLET L# 753-686 VEH#	SCSC 01/14/99	PO	I TAES		841503 124305	18,978.00	0731749	02 WLR	00001				ST	O1
00-0-0119822 01 COMPUTER		0013833236	GATEWAY SELECT 400	SCSC 06/15/99	PO	I TAES		578701 402326	1,250.00	0773511	02 WLR	04634	105B			PV	O1
00-0-0119823 01 COMPUTER		0013886072	GATEWAY 400	SCSC 06/15/99	PO	I TAES		578701 402326	1,250.00	0773549	02 WLR	04634	103			PV	O1
00-0-0119883 01 COMPUTER LAPTOP		0017880165	GATEWAY SOLO2150 CS	SCSC 03/30/00	PO	I TAES		578704 402326	1,714.00	0851930	02 WLR	00954	103			PV	O1
00-0-0122049 01 TRAILER 6 X 21		056065	PRATER EQUIPMENT DONAHUE	SCSC 09/18/00	PO	I TAES		579912 124457	3,750.00	0902307	02 WLR	00954				ST	O1
00-0-0122050 01 PRINTER LASERJET			HEWLETT PACKARD 2100XI C4139A#ABA	SCSC 05/18/00	PO	I TAES		578801 111222 111222	599.80	0864953	02 WLR	01502				ST	O1
00-0-0122056 01 TRACTOR		LV54105341659	JOHN DEERE 5410	SCSC 09/28/00	PO	I TAES		842507 124307	18,697.00	0905321	02 WLR	01067				ST	O1
00-0-0122057 01 TRACTOR		LV4100G313019	JOHN DEERE 4100	SCSC 09/28/00	PO	I TAES		842507 124319	9,650.00	0905325	02 WLR	01067				ST	O1
00-0-0122099 01 COMPUTER		2R93H01	DELL 8000 700XT PIII	SCSC 04/25/01	PO	I TAES		578701 114307	2,895.00	0955417	02 WLR	00001				ST	O1
00-0-0123328 01 COMPUTER HAND HELD		4G17DW31D07V	IPAQ H 3670	SCSC 10/04/01	PO	I TAES		578704 402326	591.00	0207249	02 WLR	04634	101			PV	O1
00-0-0123350 01 COMPUTER PALM PILOT		4G1BDW353005	COMPAQ 376 IPAG	SCSC 02/06/02	PO	I TAES		578704 114305	559.37	0242962	02 WLR	04634				ST	O1

TEXAS AGRILIFE RESEARCH
Inventory Verification List
as of 07/02/2009

SORTED BY GROUP ==> WLR
DEPARTMENT = SCSC SUB DEPT = SOIL & CROP SCIENCES
ALT APO RHODES, CAROL

Asset No / Description	CP	Serial Number / Model Number	Make	Acq Date	Mth	Dept Rest Own	Class Purch	Total Cost / Voucher	---- VERIFY THIS INFORMATION ---- Camp	Bldg	Room / Location	Group	Other	Source	Cnd
00-0-0123379 01 FORD 2003 F350 P/U		1FTSW30F53EA44547 L# 842-321 VEH#	FORD	09/12/02	PO	SCSC I TAES	841504 203104	23,725.00 0312345	02	00001	PKLT36 WLR			DS	01

TOTAL ASSETS ACCOUNTABLE: 15 TOTAL COST: 116,767.95

SORTED BY GROUP ==> ROONE
DEPARTMENT = SCSC SUB DEPT = SOIL & CROP SCIENCES
ALT APO RHODES, CAROL

Asset No / Description	CP	Serial Number	Make / Model Number	Dept Acq Date	Mth	Rest Own	Class Purch	Total Cost Voucher	Camp	Bldg	Room Location	Source	Cnd
00-0-0129234	01	403173E	JOHN DEERE	SCSC		I	842502	31,050.00	02	04634	101	PV	01
USED HARVESTER SELF-PROPELLED			5460	05/08/08	PO	TAES	405235 805249	6858316	ROONE	SHED/LOT		PL	
00-0-0129248	01	30100837	FOSS	SCSC		I	842219	78,597.74	02	04634	101	PV	01
ANALYZER			XDS	07/21/08	PO	TAES	405235	6869187	ROONE				
00-0-0129286	01	1GNDS33S492113145	CHEVROLET	SCSC		I	841511	20,080.86	02	04634	101	PV	01
CHEVROLET 2009 TRAILBLAZER SUV			L# 106-4259 VEH#	03/09/09	PO	TAES	405235	6940144	ROONE	PARKING LOT			

TOTAL ASSETS ACCOUNTABLE: 3 TOTAL COST: 129,728.60

SORTED BY GROUP ==> B ROO
DEPARTMENT = SCSC SUB DEPT = SOIL & CROP SCIENCES
ALT APO RHODES, CAROL

Asset No / Description	CP	Serial Number / Model Number	Make	Dept Acq Date	Mth	Rest Own	Class Purch	Total Cost Voucher	---- VERIFY THIS INFORMATION ---- Camp Group	Bldg Other	Room Location	Source	Cnd
00-0-0129223 01 FORD 2008 F350 P/U	1	1FTWW32R68ED57560 L# 104-9973 VEH#	FORD	SCSC 04/11/08	PO	I TAES	841504 405235	28,459.21 6851772	02 B ROO	00954	PKLT	PV	01

TOTAL ASSETS ACCOUNTABLE: 1 TOTAL COST: 28,459.21

SORTED BY GROUP ==> SC026
DEPARTMENT = SCSC SUB DEPT = SOIL & CROP SCIENCES
ALT APO RHODES, CAROL

Asset No / Description	CP	Serial Number	Make / Model Number	Dept / Acq Date	Mth	Rest / Own	Class / Purch	Total Cost / Voucher	---- VERIFY THIS INFORMATION ---- Camp / Group	Bldg / Other	Room / Location	Source	Cnd
00-0-0127167 01 HARVESTER PLOT			NEW HOLLAND	SCSC 01/09/07	PO	I TAES	579921 805249	1,000.00 6725869	06 SC026	00004	FARM	PL	01
00-0-0129259 01 COMPUTER LAPTOP		L3GGYC7	LENOVO R61 8920	SCSC 08/18/08	PO	I TAES	578704 124704	1,348.00 6876187	02 SC026	00955 GEORGE HODNETT	100B	ST	01
00-0-0129262 01 SILAGE/FORAGE WAGON		N/A___STOCK 10966	PEERLESS	SCSC 09/01/08	PO	I TAES	842503 405235	6,500.00 6901178	02 SC026	01002 FARM SERVICE	101	PV	01

TOTAL ASSETS ACCOUNTABLE: 3 TOTAL COST: 8,848.00

TEXAS AGRILIFE RESEARCH
Inventory Verification List
as of 07/02/2009

SORTED BY GROUP ==> WR
DEPARTMENT = SCSC SUB DEPT = SOIL & CROP SCIENCES
ALT APO RHODES, CAROL

Asset No / Description	CP Serial Number	Make / Model Number	Dept Acq Date	Mth	Rest Own	Class Purch	Total Cost Voucher	---- VERIFY THIS INFORMATION ---- Camp	Bldg	Room / Other Location	Source	Cnd
00-0-0123312 01			SCSC		I	579301	1,772.00	02	00001		ST	01
BUILDING PORTABLE 10 X 12 CLASSIC BARN 2 LOFTS STONEY GREEN		5930	06/01/01	PO	TAES	114307	0964731 WR			FIELDS 101 & 102		

TOTAL ASSETS ACCOUNTABLE: 1 TOTAL COST: 1,772.00

From:	Bill Rooney
To:	"Karen L Prihoda"; "dustin borden"
Subject:	inventory labels, files and fieldbook for A-line Increase
Date:	Friday, August 07, 2009 3:01:00 PM
Attachments:	09CS A Line inventory.xls 09CSA-line Labels.docx 09 CSf218w 8-7.xls

---

They can use the fieldbook that is in the excel file. If any changes are made, record that in the book and save as to the date that the changes were made.

bill

Dr. William L. Rooney
Professor, Sorghum Breeding and Genetics
Chair, Plant Release Committee
Texas A&M University
College Station, Texas 77843-2474
979 845 2151

From: Karen Prihoda
To: Bill Rooney
Subject: Inventory
Date: Tuesday, August 04, 2009 3:00:03 PM
Attachments: 09CS Sterilization Inventory.xls

As soon as I get the F4 I will send it to you.

Karen

Karen Prihoda Teal
Agriculture Research Tech II
Sorghum Breeding and Genetics
Department of Soil & Crop Science
Texas AgriLIFE Research
Texas A&M University
College Station, TX 77843
Phone:(979)845-2151
Fax:(979)862-1931

From:	Vilma Ruth Calderon
To:	[redacted]; [redacted]; Ricardo Hernandez Auerbach; [redacted]; Otho Argueta; ssalazar@fusades.org; edgar.ascencio@ca.care.org; cavenda??o@fusades.org; Bill Rooney; LLoyd Rooney
Cc:	Rene Clara; Kris Duville; Bill Rooney; LLoyd Rooney; Alicia Urquilla
Subject:	invitacion a seminario taller
Date:	Friday, August 14, 2009 2:46:11 PM
Attachments:	nota taller INTSORMIL LEAN.doc

Estimados Sres.

Por este medio estamos invitandolos cordialmente al seminario Taller sobre "Fabricacion y uso de molinos Omega VI para molienda de granos" el cual sera impartido por la Dra Le Ann Taylor del INTSORMIL /USAID. Adjunto carta de invitacion al taller.

Por su atencion a la presente, mil gracias

Vilma Ruth Calderon de Zacatares
MSc en Tecnologia de Alimentos
MSc en Economia Ambiental
Laboratorio de Tecnologia de Alimentos
CENTA, El Salvador
2302-0200 ext 246
[redacted]
vilmita@neo.tamu.edu

INTSORMIL

Sorghum, Millet and Other Grains CRSP

San Andres, 12 de Agosto, 2009

Sr (a).

Estimado(a) Sr (a).

Reciban un cordial saludo en nombre del CENTA- INTSORMIL/USAID. Por medio de la presente queremos invitarlo a un seminario taller sobre "Fabricación y uso del molino para granos Omega VI" a ser impartido por la Dra. LeAnn Taylor de la empresa Tecnologia Compatible Inc. (CTI) del estado de Minnesota, USA.

En el taller además se presentaran las experiencias obtenidas con el Omega VI para molienda a pequeña escala, por agricultores, pequeñas industrias de alimentos y los resultados de investigaciones técnicas relacionadas con el uso del molino.

El taller se llevara a cabo el día 21 de Agosto del corriente año, en el auditórium No 2 del Centro Nacional de Tecnología Agropecuaria y Forestal (CENTA), a partir de las 9 am.

Agradeceremos su participación en dicho evento.

Atentamente,

Vilma Ruth Calderón de Zacatares
Téc. Laboratorio de Alimentos
Proyecto INTSORMIL/USAID

René Clara Valencia
Coordinador Regional
INTSORMIL /USAID

From:	John L Jifon
To:	Erik Mirkov; Nael El-Hout; Qingyi Yu; C. Wayne Smith; Bill L Rooney
Subject:	Invitation for Ana Hale
Date:	Friday, September 18, 2009 11:49:36 AM

>>> Gould Mike <jmgould@tamu.edu> 9/17/2009 9:19 AM >>>
Dear Dr. Hale,

As Director of the Texas AgriLife Research Center at Weslaco, I am pleased to inform you that the Plant Geneticist Search Advisory Committee has identified you as one of the few top candidates that we would like to invite for an interview and further discussions.

If you decide to accept our invitation, you should expect to spend a day and a half visiting with faculty at the AgriLife Research Center at Weslaco and also industry representatives plus a day visiting faculty at the Department of Soil and Crop Sciences at Texas A&M University in College Station. We would also ask that you present a 45-minute seminar at both Weslaco and College Station. Including the travel from Weslaco to College Station, you can expect the interview process to span three to four days, plus travel time to and from your home.

We will cover the costs associated with your visit. Ubaldo Jacques ("JR"), from our administrative staff, will assist you in making travel arrangements. He can be reached by calling (956) 969-5613.

If you have not already done so, we are also requesting that you provide at least three letters of recommendation from your references as soon as possible. Those letters can be sent to me at the address below.

Because we are anxious to complete the selection process, we would like to arrange your visit at the earliest possible convenience. Therefore, I request that you please respond by providing 1) an indication of your continued interest in this position, and 2) several possible dates in the very near future that are available for your travel.

If you have any questions, please do not hesitate to contact me. The Search Committee and I are excited about the opportunity to meet with you, and I look forward to hearing from you shortly.

Sincerely,

Mike
Mike Gould
Professor & Center Director
Texas A&M University System
AgriLife Research Center - Weslaco
2415 East Highway 83
Weslaco, TX 78596
office: 956.968.5585
mobile: 956.373.5759
fax: 956.969.5620
jmgould@tamu.edu

From: SCSC IT Resources
To: wlr@tamu.edu
Subject: Invoice from SCSC IT Resources
Date: Wednesday, August 26, 2009 3:11:49 PM
Attachments: Inv_25_from_SCSC_IT_Resourc.pdf

Dear Bill Rooney :

Your invoice is attached. Please remit payment at your earliest convenience.

Thank you for your business - we appreciate it very much.

Sincerely,

SCSC IT Resources
979-845-3913

To view your invoice
Open the attached PDF file. You must have Acrobat® Reader® installed to view the attachment.

Invoice

SCSC IT Resources

Soil & Crop Sciences
TAMU 2474
College Station, TN 77843-2474

Date	Invoice #
8/4/2009	25

Bill To

Soil & Crop Scieces
Dr. Bill Rooney

Account #	P.O. No.	Terms	Project

Quantity	Description	Rate	Serviced	Amount
1	Troubleshoot slow Internet performance/lockups in IE on Karen Prihoda's PC. MSN toolbar causing problems-removed-rebooted	40.00	1/9/2009	40.00
4	Troubleshoot Internet Explorer adware/hijack problem. Remove outdated Norton Antivirus 2003-install Symantec Endpoint Protection 1	40.00	1/22/2009	160.00
2	Troubleshoot AC power adapter connectivity problem on DelRoy's laptop-bend internal connector pins out to make better contact-test on	40.00	2/11/2009	80.00
1	Troubleshoot antivirus360 problem on DelRoy's laptop.	40.00	2/26/2009	40.00
1	Continued troubleshooting antivirus360 problem on DelRoy's laptop	40.00	2/27/2009	40.00
1	Re-establish connection and shared connection for HP LJ 2100 on Karen's front desk PC	40.00	4/8/2009	40.00
2	Take inventory of two Dell Dimension 8300 PC's at the seed foundation building and check on laserjet2100 on Karen's desk-needed paper	40.00	4/20/2009	80.00
1	Check on DelRoy's Dell Inspirion 8500 laptop pwer adapter problem. Bring two student worker PC's back to office to re-install Windows and applications	40.00	4/29/2009	40.00
2	Reinstall windows on student Dell Inspiron 8300 pc	40.00	4/30/2009	80.00
2	Continue setting up student PCs with programs and updates	40.00	5/4/2009	80.00
1	Setup student PC's and re-establish connection to printers in front office.	40.00	5/6/2009	40.00
1	Pickup DelRoy's laptop and disassemble to prepare for installation of new DC jack on the motherboard.	40.00	5/21/2009	40.00
4	Remove old DC jack and install new one on Dell Inspiron 8500 motherboard. Test for proper operation.	40.00	5/22/2009	160.00

Total

Phone #	Fax #	E-mail	Web Site
979-845-3913	979-845-0456	klabar@ag.tamu.edu	soilcrop.tamu.edu

Invoice

SCSC IT Resources

Soil & Crop Sciences
TAMU 2474
College Station, TN 77843-2474

Date	Invoice #
8/4/2009	25

Bill To

Soil & Crop Scieces
Dr. Bill Rooney

Account #	P.O. No.	Terms	Project

Quantity	Description	Rate	Serviced	Amount
1	Telco w/Del Roy re: Dell laptop power connection not charging his battery battery is ok. works in another laptop. Power connection on laptop not charging the battery	40.00	5/28/2009	40.00
1	Remove corrupt print jobs from Karen's PC and test shared connection to her HP LI 2100 printer	40.00	7/1/2009	40.00

Total $1,000.00

Phone #	Fax #	E-mail	Web Site
979-845-3913	979-845-0456	klabar@ag.tamu.edu	soilcrop.tamu.edu

From:	Kathy Ferguson
To:	Amir M Ibrahim; Kevin Crosby; Steve Hague; Terry J Gentry; Dirk Hays; C. Wayne Smith; Dave Stelly; Scott Finlayson; Bill L Rooney
Subject:	Itinerary for Ana Hale
Date:	Monday, October 12, 2009 9:21:25 AM
Attachments:	HaleItinerary.pdf Kathy Ferguson.vcf

Attached is the itinerary for Ana Hale - Candidate for the Plant Geneticist Position in Weslaco. Please mark your calendars for the time you will be meeting with her.

Thanks,
Kathy

Make it a GREAT day!

Kathy Ferguson

Senior Office Associate
Soil & Crop Sciences | Instruction Programs
MEPS | Instruction Programs
Texas A&M University
TAMU 2474
Heep Center, Rm 217
Phone: 979-845-4620 | MEPS: 979-845-0532 | Fax: 979-458-0533

"Learning is ever in the freshness of its youth, even for the old." Aeschylus

Interview Itinerary

Dr. Ana Hale

Candidate for the Plant Geneticist position - Weslaco
October 13 -14, 2009

Tuesday, October 13, 2009

Arrive College Station @ 4:14 pm Continental flight: CO 9582

Hawthorne Suites – University Dr., College Station, Conf. #44644

Picked up at airport and delivered to hotel by: Kevin Crosby

6:30 pm	Dinner meeting – Kevin Crosby

Wednesday, October 14, 2009

7:00 am	Breakfast meeting – Wayne Smith (drop off at Wells Fargo)
8:15 am	Meet with H.R. at Wells Fargo
9:15 am	Picked up from Wells Fargo by: Terry Gentry
9:30 am	Preparation for seminar
10:00 am	Seminar presentation (45 minutes) and discussion
11:00 am	Visit with Faculty room 440 or
	Tour of Facilities with
12:00 pm	Lunch meeting – Wayne Smith
1:30 pm	Dave Stelly – New Beasley Lab
2:00 pm	Bill Rooney – Foundation Seed
2:30 pm	Dirk Hays – Heep 220D
3:00 pm	Scott Finlayson – Heep 220B
3:30 pm	Amir Ibrahim – Heep 430C
4:00 pm	SCSC Seminar
5:00 pm	Dinner meeting: Steve Hague
6:00 pm	Delivered to airport by: Steve Hague

Depart College Station @ 7:15 pm Continental flight: CO 9560

From: Borden, Dustin Ross
To: bill ronney; Delroy Collins
Subject: Jason Wright using forage harvester
Date: Wednesday, October 07, 2009 11:48:39 AM

Dr. Rooney and Delroy

Jason wants to know if he can use the one row harvester here. I told him that I would leave that up to Delroy.

He also is still insisting on taking the one row to wesalco to harvest things, but I told him that I dont think it is worth the time and money. His test is just as bad as our (lodging).

Thanks

Dustin

Dustin Borden '07
Research Assistant
Sorghum Breeding and Genetics
Texas A&M University
College Station, TX 77843
(979)845-2151

From: Carol Rhodes
To: Joy Bading; Jennifer M Humphries
Cc: Bill L Rooney
Subject: job description
Date: Monday, September 28, 2009 3:07:09 PM

Ladies,
I need a title suggestion. The job will be a combined Ag Res. Tech. II and an office associate type. Possible rate of pay (exempt preferred) about $28,000/year. Person could work in the field or tend to duties such as ordering materials and supplies, make travel arrangements, or travel to collect data, etc. I am thinking possibly a Research Assistant but am open to any suggestions you might have.

Thanks for your help,
Carol Jean

C. J. Rhodes
Carol J. Rhodes, Administrative Services Officer
Department of Soil & Crop Sciences
Texas A&M University
TAMU 2474
College Station, TX 77843-2474
cj-rhodes@tamu.edu
(979) 845-3001; FAX (979) 845-0456

From: Nilesh Dighe
To: Bill Rooney
Subject: Joining Date at Monsanto
Date: Sunday, September 27, 2009 7:26:49 AM

Dr. Rooney-

Last Friday, I received a verbal offer from Monsanto and am hoping to receive the written offer in the next few weeks. They told me that the first week of January, 2010 will be my start date. During the next three months, I would like to grind and scan all of the 2009 bioenergy-material, work with FOSS and NREL in having the model loaded on our instrument, and process the samples that we collected for grain-NIR.

Nilesh

From:	Delroy Collins
To:	Bill; Catherine; [redacted] Dennis; Dustin; George; Juerg; Kerry; [redacted]; Mohan; Nilesh; Rebecca; Seth; Steve; [redacted]
Subject:	Karen"s retirement
Date:	Thursday, September 17, 2009 9:27:58 AM

Everyone:

Let's get a gift for Karen on the occasion of her retirement. Any suggestions? Remember that her retirement party is at 9am on Friday.

Mr. S. Delroy Collins, Research Associate
Sorghum Breeding and Genetics
Dept. of Soil & Crop Sciences
Texas A&M University
370 Olsen Blvd.
College Station, TX 77843
delroy@tamu.edu
(979) 845-2151

From: Delroy Collins
To: [redacted]; Bill; Catherine; [redacted]; [redacted] Dustin; George; Karen Prihoda; [redacted]; Mohan; Nilesh; [redacted] Rebecca
Subject: lab meeting, 1pm, Thursday, Sept 17
Date: Thursday, September 17, 2009 7:47:18 AM

Everyone:

Would it be possible for us to have a lab meeting today at 1pm? We'll talk about trips that are needed.

Mr. S. Delroy Collins, Research Associate
Sorghum Breeding and Genetics
Dept. of Soil & Crop Sciences
Texas A&M University
370 Olsen Blvd.
College Station, TX 77843
delroy@tamu.edu
(979) 845-2151

From: Chalmers, Ester A
To: wlr@tamu.edu
Cc: GHodnett@ag.tamu.edu
Subject: Laboratory re-inspection evaluation for building 955
Date: Thursday, October 08, 2009 4:30:54 PM
Attachments: Rooney - PI All Corrected.pdf
Rooney, William L..pdf

Dr. Rooney,

Please see attached.

If you have any questions, please let me know.

Thank you,

Ester A. Chalmers
Environmental Safety Specialist
Texas A&M University
Environmental Health and Safety
4472 TAMU
979-845-4373

OPERATIONS

Environmental Health and Safety

TEXAS A&M UNIVERSITY

To: Dr. William L. Rooney
Professor
Soil and Crop Science
2474 TAMU

From: Ester A. Chalmers
Environmental Safety Specialist
Environmental Health & Safety
4472 TAMU

Date: October 8, 2009

Re: Follow-up Laboratory Inspection Summary Report
Greenhouse-Headhouse, Building 955

Follow-up inspections were conducted on October 2, 2009 for the laboratory facilities located in the building referenced above. These inspections were conducted to verify that Deficiencies have been corrected.

The attached Laboratory Inspection Report lists laboratory safety violations found during the initial inspection and the date each were corrected. *Please note that only items identified as Deficiencies were verified during re-inspection.* Items of Concern are expected to be corrected expediently at the discretion of the principle investigator. Items listed as Information are meant to provide information that can be used to make the lab safer for personnel and/or emergency responders.

Deficiencies noted in the initial inspection report have been corrected. The inspection reports have been updated accordingly. "Corrected Dates" will appear on those deficiencies that have been corrected.

Thank you for your efforts in ensuring a safe laboratory environment for Texas A&M University faculty, staff, students, and visitors.

Cc: Mr. George Hodnett

1111 Research Parkway
4472 TAMU
College Station, TX 77843-4472

Tel. 979.845.2132 Fax 979.845.1348
http://ehsd.tamu.edu

ENVIRONMENTAL HEALTH AND SAFETY DEPARTMENT
LABORATORY SAFETY EVALUATION

DEPT: **Soil & Crop Sciences**

PI: **Willam L. (Bill) Rooney**
Inspector : **Ester Chalmers**

Inspection Date(s)	Building Num/Name and Lab/Room(s) Inspected		Inspection Date(s)	Building Num/Name and Lab/Room(s) Inspected	
7/16/2009	*0955 GREENHOUSE-HEADHOUSE*	*103*	*7/16/2009*	*0955 GREENHOUSE-HEADHOUSE*	*104*
7/16/2009	*0955 GREENHOUSE-HEADHOUSE*	*104A*	*7/16/2009*	*0955 GREENHOUSE-HEADHOUSE*	*106*
7/16/2009	*0955 GREENHOUSE-HEADHOUSE*	*108*	*7/16/2009*	*0955 GREENHOUSE-HEADHOUSE*	*108A*

01. Laboratory Security

No unsafe conditions observed

02. Electrical Safety (NFPA Code)

No unsafe conditions observed

03. Fire/Life Safety (NFPA Code)

Item : *Combustibles stored within 24 inches of the ceiling (Item of Concern)*
Recommendation : *Remove combustible items that are stored within 24 inches of the ceiling.*
Regulation : *NFPA 1.10.19.3*

Inspection Date	*Lab/Room*	*Building Name*	*Date Corrected*	*Comments*
7/16/2009	*108A*	*GREENHOUSE-HEADHOUSE*		

Item : *Bicycles observed in building (Information)*
Recommendation : *Bicycles are prohibited in buildings.*
Regulation : *NFPA 101.3.3.121*

Inspection Date	*Lab/Room*	*Building Name*	*Date Corrected*	*Comments*
7/16/2009	*103*	*GREENHOUSE-HEADHOUSE*		

04. Safe Lab Practices

Item : *Inadequate hand-washing facilities (Item of Concern)*
Recommendation : *Provide adequate facilities for hand-washing (e.g. soap, paper towels, running water)*
Regulation : *29 CFR 1910.1030*

Inspection Date	*Lab/Room*	*Building Name*	*Date Corrected*	*Comments*
7/16/2009	*108*	*GREENHOUSE-HEADHOUSE*		

Item : *Empty bottles are not defaced (Item of Concern)*
Recommendation : *Deface all empty bottles before re-use to prevent confusion over contents.*
Regulation : *25 TAC 295.6*

Inspection Date	*Lab/Room*	*Building Name*	*Date Corrected*	*Comments*
7/16/2009	*106*	*GREENHOUSE-HEADHOUSE*		

Any questions? Call the Environmental Health and Safety Department at 845-2132.

[ANSI - American National Standards Institute, EPA - Environmental Protection Agency, NFPA - National Fire Protection Association, TCEQ - Texas Commission on Environmental Quality, TDH - Texas Department of Health]

ENVIRONMENTAL HEALTH AND SAFETY DEPARTMENT
LABORATORY SAFETY EVALUATION

DEPT: **Soil & Crop Sciences** PI: **Willam L. (Bill) Rooney**
Inspector : **Ester Chalmers**

04. Safe Lab Practices

Item : *Housekeeping needed (Item of Concern)*

Recommendation : *Housekeeping in this area needs to be improved. Dispose of clutter, including unnecessary boxes, old equipment, and trash.*

Regulation : *29 CFR 1910.22(a)(1)*

Inspection Date	Lab/Room	Building Name	Date Corrected	Comments
7/16/2009	106	GREENHOUSE-HEADHOUSE		
	This violation was noted during the last evaluation but has not been corrected.			
7/16/2009	108	GREENHOUSE-HEADHOUSE		

05. Physical Hazards

No unsafe conditions observed

06. Fume Hood/Biological Safety Cabinet

Item : *Chemicals stored in fume hood/biological safety cabinet (Item of Concern)*

Recommendation : *Remove chemicals stored in fume hood/biological safety cabinet.*

Regulation : *Prudent Practices 1995, pages 73, 180*

Inspection Date	Lab/Room	Building Name	Date Corrected	Comments
7/16/2009	104	GREENHOUSE-HEADHOUSE		

07. Personal Protective Equipment/Eyewash/Showers(ANSI Standards,TDH HazCom Act)

Item : *Inadequate eyewash (Item of Concern)*

Recommendation : *Provide an ANSI-approved continuous-flow eyewash (a squeeze bottle eyewash is not adequate).*

Regulation : *ANSI Z358.1-2004*

Inspection Date	Lab/Room	Building Name	Date Corrected	Comments
7/16/2009	104	GREENHOUSE-HEADHOUSE		*Please contact Alvin Walker at 845-3047 or a-walker4@tamu.edu for information on an appropriate type.*
7/16/2009	108	GREENHOUSE-HEADHOUSE		*Contact Alvin Walker at 845-3047 or a-walker4@tamu.edu for information on an appropriate type.*

Any questions? Call the Environmental Health and Safety Department at 845-2132.

[ANSI - American National Standards Institute, EPA - Environmental Protection Agency, NFPA - National Fire Protection Association, TCEQ - Texas Commission on Environmental Quality, TDH - Texas Department of Health]

ENVIRONMENTAL HEALTH AND SAFETY DEPARTMENT
LABORATORY SAFETY EVALUATION

DEPT: **Soil & Crop Sciences** PI: **Willam L. (Bill) Rooney**
Inspector : **Ester Chalmers**

07. Personal Protective Equipment/Eyewash/Showers(ANSI Standards,TDH HazCom Act)

Item : *Emergency shower/eyewash has not been tested (Information)*
Recommendation : *EHS will test the emergency shower/eyewash.*
Regulation : *ANSI Z358.1-2004*

Inspection Date	Lab/Room	Building Name	Date Corrected	Comments
7/16/2009	104	GREENHOUSE-HEADHOUSE		Inspector has notified the appropriate personnel within EHS to have the emergency shower/eyewash station tested.
7/16/2009	108	GREENHOUSE-HEADHOUSE		Inspector has notified the appropriate personnel within EHS to have the emergency shower/eyewash tested.

Item : *Improper work attire, or personal protective equipment (Item of Concern)*
Recommendation : *Use appropriate PPE for work being performed (safety glasses, lab coat, gloves, etc). Ensure lab personnel are wearing appropriate clothing in lab (no shorts, bare midriffs, long hair, dangling jewelry or open-toed shoes).*
Regulation : *29 CFR 1910.132*

Inspection Date	Lab/Room	Building Name	Date Corrected	Comments
7/16/2009	104A	GREENHOUSE-HEADHOUSE		Noted lab personnel was wearing shorts.

08. Chemical Storage (NFPA Code, TDH HazCom Act)

Item : *Flammable chemicals found in household refrigerator/freezer or walk-in cooler (Deficiency)*
Recommendation : *Remove flammables stored in household refrigerator/freezer or walk-in cooler. Flammable chemicals needing refrigeration must be kept in a flammable materials or lab-safe refrigerator/freezer.*
Regulation : *NFPA 45.12.2.2*

Inspection Date	Lab/Room	Building Name	Date Corrected	Comments
7/16/2009	103	GREENHOUSE-HEADHOUSE	10/2/2009	Noted that the flammable chemicals were in the hallway refrigerators and freezer.

Item : *Improper dating of chemicals (Item of Concern)*
Recommendation : *Date chemicals when received and again when opened. If date of acquisition or opening is unknown, back-date to the oldest known date for a reference point, e.g. Pre-2001.*
Regulation : *NFPA 45.9.2.3.4, NIOSH Publication 2007-107*

Inspection Date	Lab/Room	Building Name	Date Corrected	Comments
7/16/2009	103	GREENHOUSE-HEADHOUSE		Continue dating all chemicals.
7/16/2009	104	GREENHOUSE-HEADHOUSE		
7/16/2009	108A	GREENHOUSE-HEADHOUSE		

09. Waste Disposal (EPA/TCEQ Regulations)

No unsafe conditions observed

Any questions? Call the Environmental Health and Safety Department at 845-2132.

[ANSI - American National Standards Institute, EPA - Environmental Protection Agency, NFPA - National Fire Protection Association, TCEQ - Texas Commission on Environmental Quality, TDH - Texas Department of Health]

DEPT: **Soil & Crop Sciences**

PI: **Willam L. (Bill) Rooney**
Inspector : **Ester Chalmers**

10. Autoclave (TCEQ Regulations)

No unsafe conditions observed

11. Cryogenic Liquids

No unsafe conditions observed

12. Warning Signs/Labels (TDH HazCom Act)

Item : *Improper labeling of secondary container (Item of Concern)*

Recommendation : *Ensure that all containers are labeled to indicate contents; even those that contain water or are a part of equipment or experiments.*

Regulation : *29 CFR 1910.1200(f)(9)*

Inspection Date	Lab/Room	Building Name	Date Corrected	Comments
7/16/2009	103	GREENHOUSE-HEADHOUSE		Noted that in storage room, a squirt bottle and spray bottles were not labeled.
7/16/2009	104	GREENHOUSE-HEADHOUSE		Noted a bottle and carboy were not labeled.
7/16/2009	104A	GREENHOUSE-HEADHOUSE		Noted a spray bottle was not labeled.

Item : *Emergency contact information is not posted (Item of Concern)*

Recommendation : *Post emergency contacts and off-hour phone numbers on all outer doors.*

Regulation : *TAMU Safety Manual 11-2*

Inspection Date	Lab/Room	Building Name	Date Corrected	Comments
7/16/2009	103	GREENHOUSE-HEADHOUSE		

13. Laser Safety

No unsafe conditions observed

14. Teaching Laboratories

No unsafe conditions observed

Additional Notes :

Noted that room 106 is a dark room that is not in use. Also noted sink hose is long. Recommend cutting it so that it is flush with the top of the sink.

Any questions? Call the Environmental Health and Safety Department at 845-2132.

[ANSI - American National Standards Institute, EPA - Environmental Protection Agency, NFPA - National Fire Protection Association, TCEQ - Texas Commission on Environmental Quality, TDH - Texas Department of Health]

From:	Howell, Bill
To:	Avant, Bob; McCutchen, Bill; Mullet, John E.; Baltensperger, David; jtcothren@tamu.edu; Helms, Adam; Schuerman, Peter L.; Petty, Blake D.
Cc:	Hurley, Janie C.; Spurlin, Shayna; Zak, Kendra; Simpson, Shay; Bill Rooney
Subject:	LANL mtg Mon 10/5 8:00-12:00AM AgriLife Corp Relations CR, Centeq Bldg
Date:	Wednesday, September 30, 2009 2:02:10 PM
Attachments:	United States Patent 6288240.mht United States Patent 6555500.mht United States Patent 6593275.mht United States Patent 6831040.mht United States Patent Application 0070105719.mht United States Patent Application 0070218556.mht United States Patent Application 0080177478.mht

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Bob, Bill Mc, et al…..

Below is the information which we received from Pat Unkefer at LANL. She provides a good short description of what they will address, who will be here from LANL, and a very nice outline of what they wish to discuss/what they are seeking. This outline will serve as the agenda.

From my recollection, about three years or so ago John Mullett, Bill Rooney and I had a discussion with Pat regarding this technology as LANL was first seeking to get field trial information but because it was focused at that time on multiple applications of proline, we were basically not interested. What Dr. Unkefer is bringing now is the genetics in addition to the chemical additive(s) which should have application in plant lines of interest to AgriLife. And as I understand it, they have licensed the proline applications technology to a small startup which helped them get field data on a wide variety of plants. What they have not licensed is the genetic modification/trait development technology.

I believe it will be up to AgriLife to determine if there is a fit in providing routes to market as well as experimental work with the proviso that AgriLife sees market value and joint effort value. Pat has told me that A&M is the first place they are coming to tell the complete story and seek a larger alliance into multiple markets.

I have also taken the liberty of attaching patents & applications I turned up in a quick search by name (Pat J. Unkefer) in case some of you wish to explore the published patent background. There are more recent filings which have not come into light yet. My understanding is that they have kept this close to the vest and not been seeking publications until they have a sound commercialization strategy.

I'll be happy to try to field any questions you might have…..but you folks know I am out of my league in this kind of technology!

Best,

Bill Howell
TAMUS-OTC
979-458-0131
wrhowell@tamu.edu

From: Pat Unkefer [mailto:punkefer@lanl.gov]
Sent: Wednesday, September 30, 2009 10:00 AM
To: Howell, Bill
Cc: pesiri@lanl.gov; [redacted]; ksharples@lanl.gov; Thomas J. Knight; Penny Anderson
Subject: iinfo for upcoming visit

Bill:

Our team from Los Alamos is very excited for our meeting on Monday. We appreciate your help and guidance in making this a productive meeting for both sides. As I stated on the telephone, we are coming to Texas A&M because we have a great deal of respect for the quality of your team in this technical area. We also know that your group knows how to get thing done, and more importantly, that you do things the right way. We would like to introduce you to our genetic engineering technology to increase plant growth rates as well as biomass and overall yield. We will provide a background on the fundamental discovery that lead to the technology and summary of the development of the project over the past decade. This technology has both a metabolite (chemical additive) version that is already commercialized and the new genetic version that we now intend to commercialize. We will brief on both versions as the chemical gives background and field data and describe the GMO technology. We will expect that the discussions will be subject to the terms of our bilateral NDA (09-6882). We plan to tell you the full, unedited story. We will exclude details on our patent filings at the present, but other than that we have no secrets.

The Team from Los Alamos includes:

- Pat Unkefer, LANL Technical Staff Member and Project Lead
- Tom Knight, University if Southern Maine professor and technical collaborator
- Penny Anderson, LANL Technician and lead technologies
- David Pesiri, LANL Business Development and Commercialization lead
- Ken Sharples, External Patent Counsel and commercialization team member (unable to attend due to a conflict)

In summary, here is what we would like to provide you with:

I. Technical

- A brief introduction to the LANL program.
- A brief introduction to the LANL team
- Technology background (fundamental discovery, role of the metabolite, applications of the metabolite, current understanding of the mechanisms for activity)
- Commercialization status of the background (metabolite) technology (licensee approach, general progress, field data)
- Genetic technology summary (relationship between the GMO and metabolite technologies, experimental approach, results, current models and assumptions)

II. Business

- A cursory overview of our patent position
- Our assumptions and visions for commercialization
- Our time line for commercialization
- The spinout model as a means to protect, develop and commercialize most effectively

What we seek from the experts at the Texas AgriLife Research group:

- A review and honest assessment of the technology
- Guidance on our potential position in the industry
- Guidance on bringing a technology like this to the market (trusting large ag. companies, need for aggressive patent strategy and enforcement, effective use of resource to validate and protect broadly)
- Areas for potential collaboration/partnership with Texas A&M
- Opportunities and obstacles that we might be unaware of

We look forward to the discussions on Monday.

Pat