



U.S. Wheat & Barley Scab Initiative

FY08 Request for Pre-Proposals

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PREFACE

The USWBSI's Action Plan has led to a restructuring of the Initiative's areas of research, as well as **significant changes** to the process for developing the annual research plan and budget. The expectation is that these changes will lead to greater collaboration and communication, and more rapid attainment of the Initiative's primary goal: **"To develop as quickly as possible effective control measures that minimize the threat of Fusarium head blight (scab), including the reduction of mycotoxins, to the producers, processors, and consumers of wheat and barley"**. Go to http://www.scabusa.org/pdfs/uswbsi_action-plan_web.pdf to read the complete action plans for all FY08 research areas.

FY08 Research Areas (RA)

Below are the FY08 Research Areas including an overview of how they differ from the FY07 research areas:

- FHB Management (MGMT) – CBCC and EEDF have been joined to form this new research area.
- Food Safety, Toxicology and Utilization of Mycotoxin-contaminated Grain (FSTU) – no major change to research area.
- Gene Discovery and Engineering Resistance (GDER) – formerly Genetic Engineering and Transformation; primarily name change only.
- Pathogen Biology & Genetics (PBG) – formerly Pathogen Genomics & Genetics; primarily name change only.
- Variety Development and Host Resistance (VDHR) – HGR, HGG and VDUN have been joined to form this new research area.

FY08 Research Area program descriptions and research priorities for the five USWBSI research areas listed above are included in this document (Pages 7-9), and can also be accessed at www.scabusa.org/research_rfp08.html. PIs should study this information carefully; any proposed research should be based on the FY08 research priorities which were derived from goals of the Action Plan.

Request for Pre-Proposals (RFP)

As stated previously, the USWBSI has changed how the annual research plan and budget will be developed in FY08, which includes major changes to the Request for Pre-Proposal (RFP) process. **There are three distinct categories of FY08 Pre-Proposals:** **1)** Coordinated Projects (CP) for: Barley, Hard Winter Wheat, and VDHR Regional Uniform Nurseries; **2)** Individual Pre-Proposals submitted to FSTU, GDER or PBG Research Areas (only those research projects which the primary focus is not on Barley or Hard Winter Wheat); and **3)** FHB Management Pre-Proposals submitted via the Electronic Pre-Proposals Submission (EPS) System. An overview of each of the three categories follows:

1) Coordinated Projects: If the primary focus of your proposed research (all USWBSI Research Areas) is on Barley or Hard Winter Wheat, you **must** submit your proposed research to the Barley

Coordinated Project Committee or Hard Winter Wheat Coordinated Project Committee, respectively. If your proposed research is in the area of Variety Development and Host Resistance, and you work within one of the Uniform Nursery Regions (See page 9 to find your regional nursery), you **must** submit your proposed research to the appropriate VDHR Uniform Nursery Coordinated Project Committee. Please follow the instructions and use the forms under Section 1 titled “**Coordinated Project Pre-Proposals**” (instructions begin on page 11).

2) Individual Research Area (FSTU, GDER, and PBG) Pre-Proposals: If your proposed research is in one of the research areas listed below, and the primary focus is not on Barley or Hard Winter Wheat, please follow the instructions and forms under Section 2 titled “**Research Area Project Pre-Proposals**”(instructions begin on page 28) to submit your pre-proposal.

- Toxicology and Utilization of Mycotoxin-contaminated Grain (FSTU)
- Gene Discovery and Engineering Resistance (GDER)
- Pathogen Biology & Genetics (PBG)

3) FHB Management (MGMT) Pre-Proposals: Proposed research in the MGMT research area must be submitted using the USWBSI’s redesigned Electronic Pre-Proposal Submission (EPS) System. Please follow the instructions and use the forms under Section 3 titled “**FHB Management (MGMT) Project Pre-Proposals – Electronic Submission**” (instructions begin on page 42) to submit your MGMT Pre-Proposal.

Enhancement of USWBSI Communication Activities: The USWBSI is also seeking ways of improving and enhancing its communication and outreach activities. Although communication and outreach are included in several research areas’ Actions Plans, the Initiative would be interested in receiving pre-proposals that innovatively address this need. PIs should follow the instructions and use the forms for **Category 2: Individual Research Area Pre-Proposals**. In Box 16 of the Application for Funding Cover Page, select option ‘None of the Above’.

PIs are welcome and encouraged to interact with any of the contacts (listed on page 6) for the Coordinated Projects or Research Areas to identify the appropriate area for their proposed work.

INTRODUCTION

After carefully reading the 'PREFACE' and studying the FY08 RA Program Descriptions and Research Priorities, you are ready to begin creating your pre-proposals. Below are a few helpful hints to guide you through this process:

1. First, determine the appropriate Research Area for your proposed research project. Again, you may contact any of the individuals listed in Table 1 (page 6) to help determine the most appropriate research area for your proposed research.
2. Next, determine the Pre-Proposal Category that best fits your proposed research: 1) Coordinated Project; 2) Individual Research Areas (FSTU, GDER or PBG); or 3) FHB Management.
3. Finally, follow the instructions in the corresponding section to complete your pre-proposal.

NOTE: Proposals that do not fit into one of five USWBSI research areas or pre-proposal categories are also welcome.

PRE-PROPOSAL PREPARATION:

It is important that all pre-proposals conform to the instructions provided in the FY08 Request for Project Pre-Proposal Application. The USWBSI's Networking & Facilitation Office may return, without review, any proposals that are not consistent with these instructions. The NFO must authorize any deviations from these instructions in advance of pre-proposal submission. Deviations may be authorized by written approval from the NFO Director (dvs@uky.edu) or Manager (scabusa@scabusa.org).

COLLABORATIVE PROJECTS:

Even though five distinct Coordinated Projects have been established (Barley, Hard Winter Wheat and the three Regional Uniform Nurseries – VDHR), other collaborative projects within or across research areas are encouraged. PIs who intend to submit pre-proposals with similar objectives, methods, treatments, etc. should coordinate their efforts to produce a single, unified pre-proposal rather than similar, separate pre-proposals. If you are part of a collaborative project, and your proposed project is approved for funding, the funding will come in the form of a direct agreement from USDA-ARS to you and your institution.

REVIEW AND FUNDING RECOMMENDATION PROCESS:

Please note that project pre-proposals will be **regarded as confidential** documents. Distribution will be limited only to parties involved with the review process. All pre-proposals received by the assigned deadline will be sent for review to one of the designated review panels. The Executive Committee then reviews the panels' recommendations and if necessary, modifies the awards so that they fit into the FY08 congressional budget and the overall objectives of the Initiative. The final step is approval of the EC's recommended research plan and budget by the Steering Committee in early December. **All PIs whose proposed research project(s) are recommended for funding by the Initiative will be asked to compile and formalize their proposed research project(s) into 'Grant Applications' for inclusion in the Initiative's recommended research plan.** The recommended comprehensive plan will be sent to USDA-ARS in the early months of 2008.

NEED HELP?

If you have any questions regarding this application or the pre-proposal process, please contact the U.S. Wheat and Barley Scab Initiative's Networking and Facilitation Office (NFO) by phone at (517) 355-0271 ext. 183 or by e-mail at scabusa@scabusa.org.

To facilitate pre-proposal preparation, a Frequently Asked Questions (FAQs) document pertaining to preparation and submission of pre-proposals has been developed and is available electronically on the USWBSI's Website at:

http://www.scabusa.org/pdfs/fy08_rfp_faq.pdf

With the major changes to the RFP process for FY08, the FAQ document will be updated regularly as questions and requests for clarification are submitted to the Networking & Facilitation Office (NFO).

WHAT GETS SUBMITTED?

A single signed, paper copy* of each Project pre-proposal (Categories 1 and 2) must be received in the NFO at the address below by **the set deadline (see page 5)**:



USWBSI/NFO
ATTN: Susan Canty, Manager
380 Plant and Soil Sciences Building
East Lansing, MI 48824-1325

* If Pre-proposal contains colored images/graphics, also send an electronic version of pre-proposal to NFO via e-mail.

IMPORTANT RFP DEADLINES FOR ALL CATEGORIES OF PRE-PROPOSALS

<u>RFP Category</u>	<u>Description of Item:</u>	<u>Deadline:</u>
1. Coordinated Projects (BAR, HWW and VDHR – Regional Uniform Nurseries)	Letter of Intent (LOI)	August 1, 2007 5:00 PM*
	Individual Proposed Research Project	To be set by individual CP Committee.
	Final Coordinated Project Pre-Proposal	October 2, 2007 5:00 PM
2. Research Area (FSTU, GDER and PBG)	FY08 RA Pre-Proposal	September 18, 2007 5:00 PM
3. FHB Management Pre- Proposals - Electronic Submission via the EPS System	Pre-Registration of MGMT Pre- Proposal	August 31, 2007 5:00 PM
	FY08 MGMT Pre-Proposal	September 18, 2007 5:00 PM

* All times in Eastern Daylight Times (EDT)

Table 1. Contacts for Coordinated Projects, Research Areas and Networking & Facilitation Office.

Coordinated Projects		Contact	Email Address
Barley (BAR)		Kevin Smith, Univ. of Minnesota	smith376@umn.edu
Hard Winter Wheat (HWW)		Stephen Baenziger, University of NE	pbaenziger1@unl.edu
Uniform Nurseries - VDHR ¹	Region		
	Spring Wheat (includes Durum)	Dave Garvin, USDA-ARS, MN	garvi007@umn.edu
	Winter Wheat - Northern	Clay Sneller, Ohio State University	sneller.5@osu.edu
	Soft Red Winter Wheat - Southern	Paul Murphy, North Carolina State Univ.	Paul_Murphy@ncsu.edu
Research Areas ²	For Questions about?	Contact	Email Address
MGMT	Chemical/Biological Control; Cultural Practices	Stephen Neate, ND State Univ.	stephen.neate@ndsu.edu
	Etiology, Epidemiology and Disease Forecasting	Christina Cowger, USDA-ARS, NC	christina_cowger@ncsu.edu
FSTU		Jim Pestka, MI State University	pestka@msu.edu
GDER		Blake Cooper, BARI, CO	blake.cooper@anheuser-busch.com
PBG		Frances Trail, MI State University	trail@msu.edu
General Questions regarding the RFP Process		Contact	Phone Number/E-mail
		Dave Van Sanford, Director of the Networking & Facilitation Office	859-338-2409 dvs@email.uky.edu
		Sue Canty, Manger of the Networking & Facilitation Office	517-290-5023 scabusa@scabusa.org

¹ VDHR – Variety Development & Host Resistance

² MGMT – FHB Management
 FSTU – Food Safety, Toxicology, and Utilization of Mycotoxin-contaminated Grain
 GDER – Gene Discovery & Engineering Resistance
 PBG – Pathogen Biology & Genetics

FY08 Research Area Program Descriptions and Research Priorities

FHB MANAGEMENT (MGMT)

FY08 Program Description:

The FHB Management (MGMT) research area supports research to develop and test effective and economical disease management practices that reduce FHB severity and DON in harvested grain to meet the immediate and long-term needs of the wheat and barley industries.

This research area involves: tillage practices, crop sequences, and other cultural practices targeting *Fusarium*-infested residues; fungicides, biological control agents, and application technologies for chemical and biological agents; disease management decision tools, and advanced knowledge pertaining to disease development, studies on the refinement and deployment of disease prediction and forecasting models; studies on pathogen survival, inoculum production, dispersal, infection, colonization, and mycotoxin production, and high levels of mycotoxin in asymptomatic grain.

NOTE: Priority will be given to multi-PI, collaborative, integrated pre-proposals that address the research priorities listed below.

FY08 Research Priorities derived from Action Plan Goals:

1. Validate integrated management strategies for FHB and DON.
2. Enhance communication and end user education/outreach.
3. Develop the next generation of management tools for FHB/DON control.
4. Develop a full understanding of specific environmental and biological factors influencing infection and toxin accumulation that can be used to develop the next generation of disease forecasting and DON risk assessment systems.

FOOD SAFETY, TOXICOLOGY AND UTILIZATION OF MYCOTOXIN-CONTAMINATED GRAIN (FSTU)

FY08 Program Description:

The Food Safety, Toxicology and Utilization of Mycotoxin-Contaminated Grain (FSTU) research area supports research on food safety and food processing issues related to the presence of *Fusarium* spp. mycotoxins in wheat and barley grain. Practical outcomes of research in this area include: 1) improved toxicological data to assure that current guidelines are providing the appropriate safety factors for the consumer; 2) analytical tools that can be used by small grain producers, elevators, millers, and processors, to rapidly and reliably identify mycotoxin-contaminated grain; 3) develop appropriate strategies to deal with contaminated grain; and 4) diagnostic data on *Fusarium* spp. mycotoxins required for development of FHB resistant/tolerant varieties of wheat and barley.

FY08 Research Priorities derived from Action Plan Goals:

1. Provide analytical support for DON/trichothecene quantitation for Initiative's stakeholders.
2. Provide requisite information on DON/trichothecene safety issues to producers, millers, researchers, risk assessors, and regulators.

GENE DISCOVERY AND ENGINEERING RESISTANCE (GDER)

FY08 Program Description:

The Gene Discovery and Engineering Resistance (GDER) research area (RA) will focus primarily on development of engineered strategies to FHB resistance, and on the identification of candidate genes for resistance from wheat, barley and other plants. Gene discovery and transformation of non-cereal systems will be supported for the purpose of rapidly screening potential anti-*Fusarium* genes.

FY08 Research Priorities derived from Action Plan Goals:

1. Characterize the genetic function of existing and novel loci for FHB resistance.
2. Increased efficiency of identification of candidate genes for resistance against FHB and reduced DON accumulation.
3. Develop effective FHB resistance through transgenic strategies.

PATHOGEN BIOLOGY & GENETICS (PBG)

FY08 Program Description:

Research in this area includes studies that address pathogen diversity, mycotoxin biosynthesis, host/parasite interactions at the molecular level, and host resistance mechanisms at the molecular level that target the pathogen. Research in PBG should complement and be linked to whole plant research that will lead to disease control and/or toxin reduction strategies. Annual population surveys will receive a low priority.

FY08 Research Priorities derived from Action Plan Goals:

1. Characterize genetic variation in the pathogen population with regard to aggressiveness toward plants and mycotoxin potential.
2. Characterize plant-fungal interactions in plant lines being developed by researchers in the USWBSI.
3. Develop new strategies for reducing the impact of FHB and associated mycotoxin contamination in barley and wheat.

VARIETY DEVELOPMENT AND HOST RESISTANCE (VDHR)

FY08 Program Description:

The Variety Development and Host Resistance research area combines three previous research areas: Variety Development and Uniform Nurseries (VDUN), Host Genetics and Genomics (HGG), and Host Genetic Resources (HGR). The types of research that area appropriate for VDHR, therefore, are breeding, cultivar and germplasm development, participation in uniform FHB nurseries, marker-assisted selection and QTL mapping and incorporation of novel resistance from wide crosses into useful germplasm. Collaborative projects with components in other research areas, such as evaluation of varieties or breeding lines varying in FHB resistance with and without fungicide treatment, would be appropriate for inclusion in VDHR.

VDHR is built around existing Uniform FHB Screening Nurseries: Uniform Regional Scab Nursery for Spring Wheat Parents (MN, ND, SD, MT) – this nursery includes Durum; Uniform Northern Winter Wheat FHB Screening Nursery (NY, MI, OH, IN, IL, MO, KY); Uniform Southern Soft Red Winter Wheat FHB Screening Nursery (NC, MD, VA, AR, GA, LA). These nurseries now provide a mechanism for evaluating promising new scab resistant lines, but under VDHR their role will be expanded to include a second year of testing for the best lines, and testing a subset of the best lines in multi-location Integrated Management Trials in collaboration with a plant pathologist.

Further, the uniform nursery structure provides PIs with a cadre of regional collaborators for any activity appropriate to this area, such as mapping of new resistance sources through joint, collaborative multi-location phenotyping, or joint evaluation of resistance from wild relatives. VDHR researchers are expected to submit a list of the parents they use for improving FHB resistance, and be willing to share prebreeding populations derived from these crosses with all collaborators. All collaborators must screen varieties planted commercially (>5% of wheat acreage) in their state for FHB resistance and post results on a website.

NOTE: Individual proposed research projects should be submitted to the appropriate Coordinating Committee (see Table 1, page 6) who will then compile individual proposed research projects into a Coordinated Project Pre-Proposal. Proposed VDHR research on Barley or Hard Winter Wheat should be submitted to the Barley or Hard Winter Wheat Coordinated Projects, respectively.

FY08 Research Priorities derived from Action Plan Goals:

1. Increase acreage planted to varieties exhibiting improved FHB resistance.
2. Increase efficiency of individual breeding programs' development of FHB resistant varieties.
3. Increase efficiency of introgression of effective resistance genes into breeding germplasm.
4. Develop and map diagnostic markers for effective sources of FHB resistance.

SECTION 1:

**COORDINATED PROJECT
PRE-PROPOSALS**

INTRODUCTION

Does my proposed research belong in a Coordinated Project (CP)?

Yes, if the primary focus of your proposed research involves the following:

Commodity-Based Coordinated Projects: (includes proposed research in all research areas that focus' on one of these commodities)	Barley (BAR)
	Hard Winter Wheat (HWW)
Uniform Nursery Coordinated Projects: (all VDHR proposed research not submitted to one of the Commodity-Based CPs must be submitted to one of the Uniform Nursery CPs)	Spring Wheat (includes Durum) - States included in this CP: MN, ND, SD, MT
	Northern Winter Wheat - - States included in this CP: NY, MI, OH, IN, IL, MO, KY
	Southern Soft Red Winter Wheat- -States included in this CP: NC, MD, VA, AR, GA, LA

Multi-year Pre-Proposals

The Initiative is moving towards multi-year pre-proposals. We will begin this year with the Coordinated Projects. Therefore, your 'Proposed Research Project' (Plan of Work, Budget Justification, and Budget) should be based on two years.

Overview of Submission Process for Coordinated Project Pre-Proposals:

Whether you are submitting proposed research to the Barley, Hard Winter Wheat or one of the VDHR - Regional Uniform Nurseries, below are the main components (in order of completion) of the submission process:

1. Pre-Submission: PIs submit a **Letter of Intent (LOI)** to the Coordinated Project committee contact (see Table 1, page 6), with a copy of the LOI sent to the NFO. **Deadline:** August 1st.
2. PIs submit '**Proposed Research Project**' to the Coordinated Project committee contact – deadline to be set by individual Coordinated Project committee after LOIs are received. **NOTE:** Although all Proposed Research Projects will be forwarded to the NFO for processing and review, there is no guarantee that all submitted Proposed Research Projects will be included in the final Coordinated Project Pre-Proposal.
3. Coordinated Project committee assembles accepted Proposed Research Projects into a final **Coordinated Project Pre-Proposal** and submits to NFO. **Deadline:** October 2nd.

1. PRE-SUBMISSION - LETTER OF INTENT (LOI)

If you plan to participate in one of the Coordinated Projects (Barley, Hard Winter Wheat or VDHR – Regional Uniform Nurseries), you must submit a Letter of Intent to the CP contact (see Table 1) of the appropriate Coordinated Project committee by **August 1st**. The LOI, which may be in the form of an e-mail, must include the following:

Names of PI and co-PI's, a proposed title, and a synopsis that describes the following:

- *Reasons proposed component is needed;*
- *Goals in the USWBSI's action plan addressed by this proposed research;*
- *Research needs in the USWBSI's action plan addressed by this research*
- *Statement that demonstrates that the PI/co-PI's are capable of carrying out the proposed research based on past research productivity and expertise in the relevant field(s) of research*

A sample LOI for the VDHR area might look like this:

I plan to submit a pre-proposal to the VDHR northern SW committee. My pre-proposal will include the following components:

- *breeding FHB-resistant SRW wheats (Action Plan VDHR goals 1-3).*
- *joint phenotyping of a mapping population (set of RILs from the program of "insert name here") (Action Plan VDHR goal 4)*

Further, I plan to grow the NUS and PNU S scab nurseries along with breeding lines, varieties and segregating populations at two field locations (1 irrigated, 1 not) but not in the greenhouse. Approximately 2000 – 3000 samples from the nurseries will be screened for DON. I can make up to 10 crosses to generate prebreeding populations.

This research is needed because breeding FHB resistance is a major strategy for reducing the impact of FHB on the wheat and barley crops. The proposed research addresses the following research needs in the Action Plan: maintain existing field capacity for misted nurseries, increase MAS, and distribute new sources of resistance via prebreeding populations.

I managed the SRW wheat breeding program in my state for the past 10 years. This program has released the varieties X, Y, and Z in that period of time. We have made significant progress toward enhancing FHB resistance as is evident by the performance of our lines in our regional nursery. Breeding lines X, Y, and Z ranked 1, 3, 6, respectively and all had DON levels at 50% the level of the check variety Scabby. I have collected FHB phenotype data in inoculated misted nurseries on the mapping population DDD x EEE (Don et al., 2006) as well as breeding germplasm for the past 5 years

Deadline:

Both the contact of the Coordinated Project committee and the NFO must receive Letter of Intent by August 1, 2007.

2. PROPOSED RESEARCH PROJECT

Plan of Work:

A Plan of Work must be submitted with your proposed project. This plan must describe how your work specifically fits into the overall Coordinated Project and identify any linkages to other work plans that are part of the Coordinated Project. This document should not exceed 3 pages in length (starts with 'Plan of Work' Form as page 1) and should describe in clear, concrete terms the substance of your proposed research including experimental design, materials and methods, and timeline for completing research.

Current and Pending Support:

All project pre-proposals must contain a completed Current and Pending Support Page listing other current public or private support to which key personnel identified (PI and Co-PIs only) in the pre-proposal have committed portions of their time, whether or not salary support for person(s) involved is included in the budget. Analogous information must be provided for any pending proposals that are being considered by, or that will be submitted in the near future to, other possible sponsors, including other USDA Programs or agencies, and the USWBSI. Concurrent submission of identical or similar proposals to the other possible sponsors will not prejudice pre-proposal review or evaluation by the USWBSI for this purpose. However, a project pre-proposal that duplicates or overlaps substantially with a **proposal already reviewed and funded (or to be funded)** by another organization or agency will not be recommended under this program. The third column ('Requested/Award Amount') on the 'Current and Pending Support Page' has been divided into two sub-columns: Total \$ Amount and PI \$ Allocation. For each grant/proposal listed, **include both the total ('Total \$ Amount') and the amount you have or may receive ('PI \$ Allocation')**.

Curriculum Vitae and Publication List (Maximum four pages per Scientist):

If the proposed research is a new project (i.e. has not been funded through the USWBSI for the past two funding cycles), currently funded project but transferred to new PI, or if new personnel (i.e. co-PI, post-doc, graduate student, etc.) has been added to an ongoing project, a Curriculum Vitae and Publication List for each applicable individual must be included with the pre-proposal. These items will assist the peer reviewers in assessing the competence and experience of the proposed project staff.

- *Curriculum Vitae (C.V.)*. The C.V. should be limited to a presentation of academic and research credentials, e.g., educational, employment and professional history, and honors and awards. Unless pertinent to the project, do not include meetings attended, seminars given, or personal data such as birth date, marital status, or community activities.
- *Publication List*. A chronological list of all publications in refereed journals during the past five years, including those in press, should be provided for each professional project member for whom a curriculum vitae is provided. Non-refereed technical publications that have relevance to the proposed project may be included.

The C.V. and Publication List combined must not exceed four pages per scientist. C.V. and Publication Lists for collaborators or sub-contractors are not required.

Budget Justification and Budget (Year 1 and 2):

Please complete the new ‘**Proposed Research Project Budget Justification Form**’ by following the instructions on the form, and also the ‘**Proposed Research Project Budget Page.**’ As the stated previously, the Initiative plans to initiate multiple-year projects starting with the Coordinated Projects, therefore your proposed research project should include a ‘Year 1’ and ‘Year 2’ budget request.

USDA-ARS does not set a limit on the amount of indirect costs that can be allowed. However, the USWBSI’s review process will focus on the **competitiveness of total** project costs (direct and indirect). Because Fusarium head blight is such a severe problem for the U.S. wheat and barley industries, the USWBSI encourages institutions to limit indirect costs to 5%. Excessive indirect cost rates may prejudice the Steering Committee’s final funding recommendations to USDA-ARS.

Tuition remission is **permitted** under USDA-ARS **extramural agreements** with any type of recipient organization (i.e. universities). If tuition remission is budgeted as a direct cost, it should be included in the "Other Direct Costs" category of the Budget Page (Section H).

Deadline:

The individual coordinating committees will set this deadline following receipt of LOIs, and inform the cooperating scientists of the deadline no later than mid-August.

Mailing Information for CP Contacts:

<u>Commodity-based Coordinated Projects</u>		
Barley Kevin Smith Dept. of Agronomy and Plant Genetics 411 Borlaug Hall, 1991 Upper Buford Circle University of Minnesota St. Paul, MN 55108	Hard Winter Wheat Stephen Baenziger Dept. of Agronomy & Horticulture 330 Keim Hall University of Nebraska Lincoln, NE 68583-0915	
<u>VDHR – Regional Uniform Nurseries</u>		
Spring Wheat Parents	Northern Winter Wheat	Southern Soft Red Winter Wheat
Dave Garvin USDA-ARS Room 411 Borlaug Hall, 1991 Upper Buford Circle University of Minnesota St. Paul, MN 55108	Clay Sneller Dept. of Hort. and Crop Science 1680 Madison Ave. Ohio State University/OARDC Wooster, OH 44691	Paul Murphy Department of Crop Science Box 7629 840 Method Road, Unit 3, North Carolina State University Raleigh, NC 27695

3. COORDINATED PROJECT PRE-PROPOSALS

(This section will be completed by the Coordinated Project Committee.)

Application for Funding Cover Page:

The pre-proposal must contain a completed Application for Funding Cover Page, which will be the first page of the application. In completing this form, please note the following:

- *Title of Coordinated Project Pre-Proposal (Block 6).* The title of the project pre-proposal must be brief (**80-character maximum**), yet represent the major thrust of the project. Because this title will be used to provide information to those who may not be familiar with the proposed project, highly technical words or phraseology should be avoided where possible. In addition, phrases such as “investigation of” or “research on” should not be used.
- *Coordinated Project Committee Leader and Members (Block 10).* List the name of the leader of the Coordinated Project Committee in this block. All other members of the Coordinated Project Committee should also be listed in this block (‘b’ through ‘e’).
- *Coordinated Project Designation (Block 15).* In Block 15, designate one Coordinated Project by marking an 'X' to the right of the selected Coordinated Project. You should also designate one of the sub-categories under the selected Coordinated Project.
- *Signatures.* Coordinated Project Committee Leader (i.e. ‘Contact’) should sign and date the Coordinated Project Pre-proposal Application for Funding Cover Page in the place indicated at the bottom of the page. Signatures for Coordinated Project Committee members should sign next to their name in Block 10. Signatures for Coordinated Project Committee members may initially be represented by faxed copies of the cover page, but PI’s should arrange for the Networking & Facilitation Office (NFO) to receive a cover page with ink signatures of all investigators as soon as possible.

List of Collaborators:

The Coordinated Project pre-proposal must contain a completed ‘List of Collaborators’ Form, which will be the second page of the Coordinated Project pre-proposal. The names and institutions of all of the cooperating scientists should be listed on this form, along with the names of the CP committee members, the title of the Coordinated Project Pre-proposal, and ‘Key Words’.

Outline of Coordinated Project:

Insert an overall description of the Coordinated Project that describes the objectives and outlines the manner in which all of the research activities are integrated.

Project Description:

Following the ‘Outline of Coordinated Project, insert all Proposed Research Projects (includes Plan of Work followed by Current and Pending Support Page, Curriculum Vitae and Publication List (if applicable), Budget Justification Form, and Single Proposed Research Project Budget Page) submitted by the cooperating scientists. Please order alphabetically by last name.

Combined Budget Page:

Please complete the combined ‘**Coordinated Project Pre-Proposal Budget Page.**’ This budget page should combine the budget requests from all the cooperating scientists. The ‘contact’ for the Coordinated Project committee should sign the budget page. **Depending on your institution’s requirements, the authorized organizational representative’s signature may not be required at this stage (not required for PIs affiliated with USDA-ARS).**

Pre-Submission

- Letter of Intent

**Submission Deadline (received by ‘Contact’
for CP committee and NFO):**

August 1, 2007, 5:00 PM (EDT)

Check-list of Required Items for Proposed Research Projects Submitted to Coordinated Project Committee

- Plan of Work (should not exceed three pages; starts with ‘Plan of Work’ Form as page 1)
- Current and Pending Support Page
- Curriculum Vitae and Publication List (See page 13 for applicability)
- Proposed Research Project Budget Justification Form (complete all relevant sections)
- Proposed Research Project Budget Page (sign and date)

Submission Deadline: To be set by CP Committee following the receipt of all of Letters of Intent.

Check-list and Order of Required Items for Final Coordinated Project Pre-Proposal

(To be completed by CP Committee)

- Check-list of Required Items for Coordinated Project Pre-Proposal (completed and signed by CP Leader (i.e. ‘Contact’))
- Application for Funding Cover Page– Signatures from all members of CP committee required (*See page 3 for guidelines on faxed signatures.*)
- List of Collaborators Form (list all Collaborators included in CP Pre-Proposal)
- Outline of Coordinated Project
- Project Description (includes all components of ‘Proposed Research Projects’ received from each collaborator, alphabetical order by last name)
- Combined Coordinated Project Pre-Proposal Budget Page – **CP leader’s signature is required** (*NOTE: this budget form should combine budget requests from all collaborators.*)

Submission Deadline (received by NFO):

October 2, 2007, 5:00 PM (EDT)

PLAN OF WORK (PW) – Regional Uniform Nursery Coordinated Projects

*Complete this form only if you are proposing research to one of the
VDHR Research Area – Regional Uniform Nurseries*

PI:	
Institution:	
Mailing Address:	
Phone:	
E-Mail Address:	

Select (e.g. bold, highlight, circle) one of the Regional Uniform Nurseries listed below for which you are submitting this Letter of Intent:

Spring Wheat/Durum

Winter Wheat – Northern

Winter Wheat - Southern

Title of Proposed Project:	
Amount Requesting:	\$
List FY08 Research Priority(s) addressed by this proposed research:	

SUMMARY OF PROPOSED RESEARCH PROJECT*(Page 1)*

PLAN OF WORK (PW) – Commodity-based Coordinated Projects

*Complete this form only if you are proposing research to one of the
Commodity-based Coordinated Projects*

Name:	
Institution:	
Mailing Address:	
Phone:	
E-Mail Address:	

Select (e.g. bold, highlight, circle) one of the commodities below for which you are submitting this Letter of Intent:

Barley Hard Winter Wheat

Select (e.g. bold, highlight, circle) the research area for which your proposed project fits:

MGMT FSTU GDER PGG VDHR

Title of Proposed Project:	
Amount Requesting:	\$
List Action Plan Goal addressed by this proposed research:	

SUMMARY OF PROPOSED RESEARCH PROJECT

(Page 1)

CURRENT AND PENDING SUPPORT PAGE

(Each investigator must submit separate form.)

Instructions:

1. Record information for active and pending projects, **including pre-proposals submitted to the USWBSI.**
2. All current research to which principal investigator(s) and other senior personnel have committed a portion of their time must be listed, whether or not salary for the person involved is included in the budgets of the various projects.
3. Provide analogous information for all proposed research which is being considered by, or which will be submitted in the near future to, other possible sponsors including other USDA programs ant the USWBSI.

PRINCIPAL INVESTIGATOR (PI)	SUPPORTING AGENCY	REQUESTED/AWARD AMOUNT		EFFECTIVE AND EXPIRATION DATES	TITLE AND OBJECTIVES OF PROJECT
		Total \$ Amount	PI \$ Allocation		
Current:					Title: Objectives:
					Title: Objectives:
					Title: Objectives:
					Title: Objectives:
					Title: Objectives:
Pending:					Title: Objectives:
					Title: Objectives:
					Title: Objectives:
					Title: Objectives:
					Title: Objectives:

This form is a modified version of the CSREES-663 Form.

PROPOSED RESEARCH PROJECT BUDGET JUSTIFICATION FORM

Title of Proposed Project:	
Collaborating Scientist:	
Total Requested Amount:	\$

Instructions: Complete all applicable sections below. If budget category is not applicable, enter 'N/A'. In the column where the dollar amount is inserted, **enter Year 1 amount in the top cell and Year 2 amount in the bottom cell.**

A. <u>Direct Labor (salaries and wages):</u> List below the number and titles of personnel, percentage of time/total hours to be devoted to the grant, and rates of pay. Please list according to category (i.e. Senior Personnel, Post-Docs, Graduate Students, etc)	<u>\$ per Category</u>

B. <u>Fringe Benefits:</u> For each category of personnel (i.e. Senior Personnel, Post-Docs, Graduate Students, etc.), list below the fringe rates and amounts.	<u>\$ per Category</u>

D. <u>Nonexpendable Equipment:</u> List below items, dollar amounts below and relevance to proposed research.	<u>\$ per Item</u>

E. <u>Materials and Supplies:</u> Provide below as much detail and specificity as possible for all materials and supplies associated with proposed research. Materials and Supplies should be described according to major categories, e.g., chemical reagents, computer paper and supplies, glassware, lumber, etc.	<u>Total \$ Requested</u>

F.1. <u>Domestic Travel (DT):</u> List below proposed trips individually and describe their purpose in relation to the grant. Also provide dates, destination, and number of travelers where known.	<u>Total \$ Requested</u>

F.2. Foreign Travel (FT): List below proposed trips individually and describe their purpose in relation to the grant. Also provide dates, destination, and number of travelers where known.	<u>Total \$ Requested</u>

G. Publications Costs/Page Charge: Provide below an estimate number of papers, total pages, and total cost.	<u>Total \$ Requested</u>

H. Computer (ADPE) Costs: Provide below the type of service and total cost.	<u>Total \$ Requested</u>

I. Other Direct Costs: Enter below a brief description of any other direct costs not listed above and the total for each cost. The budget justification should address each item and the basis for the estimate.	<u>\$ per Item</u>

K. Indirect Costs: Provide below your Institution's approved Indirect Cost (IDC) rate for USWBSI/USDA-ARS grants.	<u>Total \$ of IDC</u>

PROPOSED PROJECT BUDGET PAGE

PROJECT TITLE (Same as 'Cover Page):			
COLLABORATING SCIENTIST:		FY08 Funds Requested (Year 1)	FY09 Funds Requested (Year 2)
A. Salaries and Wages			
1. No. of Senior Personnel			
a. ___ PI/Co-Investigators →			
<i>Please Note: Make sure explanation is included in 'Budget Justification'</i>			
2. No. of Other Personnel (Non-Faculty)			
a. ___ Research Associates-Post-doctorate Fellows →			
b. ___ Other Professionals →			
c. ___ Graduate Students →			
d. ___ Undergraduate Students →			
e. ___ Secretarial-Clerical →			
f. ___ Technical, Shop and Other →			
Total Salaries and Wages →			
B. Fringe Benefits (If charged as Direct Costs) →			
C. Total Salaries, Wages, and Fringe Benefits (A plus B) →			
D. Nonexpendable Equipment (A detailed explanation listing items and dollar amounts should be included in the Budget Justification.) →			
E. Materials and Supplies →			
F. Travel			
1. Domestic (Including Canada) →			
Do you plan to attend the 2008 and 2009 National FHB Forum?		YES [] NO []	YES [] NO []
2. Foreign (List destination and amount for each trip.) →			
G. Publication Costs/Page Charges →			
H. All Other Direct Costs (A detailed explanation listing items and dollar amounts should be included in the Budget Justification.) →			
I. Total Direct Costs (C through I) →			
J. Indirect Costs If Applicable (Not applicable for PIs affiliated with ARS.) IDC Rate ___ %			
K. Total Direct and Indirect Costs (I plus J) →			
L. Total Amount of This Request →		\$	\$
NAME AND TITLE (Type or Print)	SIGNATURE	DATE	
Principal Investigator			
Authorized Organizational Representative	(Optional)		

This form is a modified version of the CSREES-55 Form.

Check-list for Required Items of Final Coordinated Project Pre-Proposal

This Check-list must be completed, signed and submitted with the FY08 CP Pre-proposal. By signing this form, you have indicated that all required items are included in your submitted pre-proposal. Pre-proposals that are submitted which are not accompanied by this form may be returned.

- _____ 1. Application of Funding Cover Page
- _____ 2. Summary of Coordinated Project Form
- _____ 3. Outline of Coordinated Project
- _____ 3. Proposed Research Projects (includes Plan of Work, Current and Pending Support, Vitae/Pubs if applicable, Budget Justification Form and Proposed Project Budget Page from all collaborating scientists (alphabetical order by scientists' last name))
- _____ 4. Combined Pre-Proposal Budget Page (includes Years 1 and 2)

CP Leader's Printed Name

Signature

Date

USWBSI	FY08 COORDINATED PROJECT (CP) PRE-PROPOSAL APPLICATION FOR FUNDING COVER PAGE		
1. LEGAL NAME OF ORGANIZATION TO WHICH AWARD SHOULD BE MADE	3. NAME OF AUTHORIZED ORGANIZATIONAL REPRESENTATIVE	4. a. PHONE NUMBER b. FAX NUMBER c. E-MAIL ADDRESS	
2. ADDRESS <i>(Give complete mailing address and Zip Code-including County)</i>	5. ADDRESS OF AUTHORIZED ORGANIZATIONAL REPRESENTATIVE <i>(If different from Item 2.)</i>		
6. TITLE OF PROPOSED COORDINATED PROJECT (80-character Maximum, including spaces)			
7. APPROXIMATE PERIOD OF PROPOSED PROJECT DATES MAY 2008 – APRIL 2010	8. DURATION REQUESTED 24 MONTHS	9. TOTAL FUNDS REQUESTED \$	
10. PRINCIPAL INVESTIGATOR AND CO-INVESTIGATOR (S)		11. a. CP Leaders' PHONE UMBER:	
a. Name of CP Leader (First, Middle, Last)		b. FAX NUMBER:	
b. CP Member (First, Middle, Last)		c. E-MAIL ADDRESS:	
c. CP Member (First, Middle, Last)		12. CP Leader's BUSINESS ADDRESS (Include Department/Zip Code) ALTERNATE SHIPPING ADDRESS (i.e. FEDEX)	
d. CP Member (First, Middle, Last)			
e. CP Member (First, Middle, Last)			
15. DESIGNATE WITH AN 'X' NEXT TO ONE OF THE COORDINATED PROJECTS (Commodity-Based or VDHR – Regional Uniform Nurseries) FOR WHICH YOU ARE SUBMITTING THIS PRE-PROPOSAL. Please also designate a sub-category. Coordinated Project (CP) Barley (BAR) _____ Hard Winter Wheat (HWW) _____ Variety Development & Host Resistance (VDHR) Spring Wheat Parents _____ Northern Winter Wheat _____ Southern Soft Red Winter Wheat _____		16. WILL THIS PROJECT BE SENT OR HAS IT BEEN SENT TO OTHER FUNDING AGENCIES, INCLUDING OTHER USDA AGENCIES? [] No [] Yes <i>(If yes, list Agency acronym(s) & program(s) and fill in attached "Current and Pending" Form.)</i>	
		FY08-	
SIGNATURE OF PRINCIPAL INVESTIGATOR <i>(All individuals listed in block 10 must sign.)</i>			DATE
SIGNATURE OF AUTHORIZED ORGANIZATIONAL REPRESENTATIVE <i>(Not required by USWBSI)</i>		TITLE	DATE

This form is a modified version of the CSREES-661 Form.
¹'IDC rate' refers to Indirect Cost Rate or Overhead Rate (Not applicable for USDA-ARS PIs).

COMBINED FY08 COORDINATED PROJECT BUDGET PAGE

CP TITLE (Same as 'Cover Page):		
CP LEADER:	FY08 Funds Requested (Year 1)	FY09 Funds Requested (Year 2)
A. Salaries and Wages		
1. No. of Senior Personnel		
a. ____ PI/Co-Investigators →		
<i>Please Note: Make sure explanation is included in 'Budget Justification'</i>		
2. No. of Other Personnel (Non-Faculty)		
a. ____ Research Associates-Post-doctorate Fellows →		
b. ____ Other Professionals →		
c. ____ Graduate Students →		
d. ____ Undergraduate Students →		
e. ____ Secretarial-Clerical →		
f. ____ Technical, Shop and Other →		
Total Salaries and Wages →		
B. Fringe Benefits (If charged as Direct Costs) →		
C. Total Salaries, Wages, and Fringe Benefits (A plus B) →		
D. Nonexpendable Equipment (A detailed explanation listing items and dollar amounts should be included in the Budget Justification.) →		
E. Materials and Supplies →		
F. Travel		
1. Domestic (Including Canada) →		
Do you plan to attend the 2008 National FHB Forum?	YES [] NO []	YES [] NO []
2. Foreign (List destination and amount for each trip.) →		
G. Publication Costs/Page Charges →		
H. All Other Direct Costs (A detailed explanation listing items and dollar amounts should be included in the Budget Justification.) →		
I. Total Direct Costs (C through I) →		
J. Indirect Costs If Applicable (Not applicable for PIs affiliated with ARS.) →		
K. Total Direct and Indirect Costs (I plus J) →		
L. Total Amount of This Request →	\$	\$
NAME AND TITLE (Type or Print)	SIGNATURE	DATE
CP Leader		
Authorized Organizational Representative	(Optional)	

This form is a modified version of the CSREES-55 Form.

SECTION 2:

**RESEARCH AREA (FSTU,
GDER AND PBG) PROJECT
PRE-PROPOSALS**

INTRODUCTION

Should I submit my proposed research to an individual research area?

If your research is in one the following research areas, and if the primary focus is not on Barley or Hard Winter Wheat, you should complete your pre-proposals using the instructions and forms provided in this section of the FY08 RFP.

- ❖ Food Safety, Toxicology, & Utilization (FSTU)
- ❖ Gene Discovery and Engineering Resistance (GDER)
- ❖ Pathogen Biology & Genetics (PBG)

INSTRUCTIONS

Application for Funding Cover Page

The pre-proposal must contain a completed ‘Application for Funding Cover Page’, which will be the first page of the application. In completing this form, please note the following:

- *Title of Proposal (Block 6)*. The title of the project pre-proposal must be brief (**80-character maximum**), yet represent the major thrust of the project. Because this title will be used to provide information to those who may not be familiar with the proposed project, highly technical words or phraseology should be avoided where possible. In addition, phrases such as “investigation of” or “research on” should not be used.
- *Principal Investigator/Co-Investigators (Block 10)*. List the name of the proposing principal investigator in this block. All other participating scientist should be listed as co-investigators. The co-investigators should be limited to those required for major scientific collaboration.
- *Currently Funded Projects (Block 13)*. List the titles of all individual research projects that are currently being funded in FY07 (approx. May 2007 – April 2008) in association with the USWBSI/ARS collaboration.
- *Research Area (Block 16)*. Your Project Pre-Proposal should be constructed to address one or more of the priorities included in the FY08 Program Description and Research Priorities. In Block 16, designate with an 'X' one Research Area whose description and priorities your project is designed to address. Research Area (RA) Program Descriptions and Research Priorities (PD-RP) are included in this application. You can also view them on the Initiative’s Web site at www.scabusa.org/research.html.
- *Signatures*. Sign and date the Pre-proposal Application for Funding Cover Page in the places indicated at the bottom of the page. The principal investigator, and if applicable, all co-investigators, must sign all project pre-proposals. Signatures for co-investigators may initially be represented by faxed copies of the cover page, but PI’s should arrange for the Networking & Facilitation Office (NFO) to receive a cover page with ink signatures of all co-investigators as soon as possible.

Project Summary Page

Each project pre-proposal must contain a completed Project Summary Page, which will be the second page of the project pre-proposal. The names and institutions of all of the principal and co-investigators should be listed on this form (if space for this information is insufficient, please enter “see attached” and provide the information on a separate sheet immediately following the Project Summary Page). The project summary itself must fit within the space indicated. The summary is not intended for the general reader; consequently, it may contain technical language relating to Fusarium head blight research. The project summary should be self-contained, include a specific description of the activity to be undertaken, and focus on the following:

- Overall project goal(s)
- Project Objectives (list in numbered format) and Expected Outcomes;
- Plans to accomplish project goal(s) within period of proposed work (**one-year duration**); and
- Relevance of the project to the goals of the U.S. Wheat and Barley Scab Initiative with specific reference to the research priorities listed in the FY08 Program Descriptions and Research Priorities (PD-RP).

A concise, informative project summary is essential. Project Summaries are considered part of the pre-proposal and are therefore confidential. The complete Project Summary should fit within the space allocated in the form.

Summary of Progress for Ongoing Related Project(s) – *Limit to a single page per project.*

The purpose of this section is to enable PI's to demonstrate that they have made (or are moving towards) effective use of funds for ongoing USWBSI-recommended projects **related to** the current pre-proposal. This includes projects which were initially funded this year (FY07). Include the following information for each **relevant** ongoing project:

- Project Title;
- brief summary of activities (including non-data generating items such as hiring of personnel, equipment acquisition, etc.), any results and/or accomplishments made to date (include actual data documenting progress made since FY06 funding was awarded); and
- any information that will help reviewers understand how the current pre-proposal builds upon the ongoing project.

Project Description

The Project Description should provide a clear statement of the work to be undertaken and must include: research objectives for the **period of the proposed work** and expected significance; relation to longer-term goals of the PI's project; and relation to the present state of knowledge in the field, to work in progress by the PI under other support and to work in progress elsewhere.

The Project Description should outline the general plan of work, including the broad design of activities to be undertaken, and, where appropriate, provide a **clear description** of experimental methods and procedures, and plans for preservation, documentation, and sharing of data, samples, physical collections, curriculum materials and other related research and education products.

- i. **Format:** Brevity will assist reviewers and USWBSI/NFO staff /reviewers in dealing effectively with pre-proposals. **Therefore, the written text of the Project Description must be five pages or less (single spaced or equivalent); ten pages or less in total including figures and tables.** The Project

Description should be formatted using Times New Roman (Normal type except headings and 12 point or higher) with one-inch margins. **NOTE:** Bold formatting should only be used for section headings or used minimally to emphasize importance or significance. Conformance to the format requirements will be strictly enforced.

ii. Content:

- *Title.* Same as Funding Cover Page (**80-Character Maximum**).
- *Introduction.* A clear statement of the goal(s) and supporting objectives or research questions of the proposed project should be included. **These are one-year projects; include only those research objectives which can be accomplished within one year.** The most significant published work in the field under consideration, including the work of key project personnel on the current application, should be reviewed. The current status of research in this field of science should also be described **including, but not limited to, any ongoing USWBSI-recommended work currently underway. Preliminary data pertinent to the proposed research may be included in this section.** Present and discuss published literature that is directly related to, and supports, the proposed research (research objectives, materials and methods)
- *Rationale and Significance.* It is understood that head scab is a devastating disease. **Acknowledgment of this fact should require no more than one sentence.** Concisely present the rationale behind the proposed research; identify the gaps in the knowledge base that your pre-proposal is trying to fill. Relevance of the project to the goals of the U.S. Wheat and Barley Scab Initiative with specific reference to the priorities listed in the FY08 Program Descriptions and Research Priorities (PD-RP). If applicable, please indicate if the research proposed here could lead to successful acquisition of grant funds from other agencies.
- *Research Materials and Methods.* Specifically, this section must include:
 - The hypotheses or questions being asked;
 - A description of the investigations and/or experiments proposed **in the sequence** in which the investigation or experiments are to be performed;
 - Techniques and methodologies to be used in carrying out the proposed project, including the feasibility of the techniques. **(Describe in step by step fashion exactly what techniques, materials and methods will be used.);**
 - Results expected;
 - Means by which experimental data will be analyzed or interpreted;
 - Means of applying results or accomplishing technology transfer, where appropriate;
 - Pitfalls that may be encountered;
 - Limitations to proposed procedures; and
 - A tentative schedule for conducting major steps involved in these investigations and/or experiments.

Please Note: Failure to address each of the issues in the bullet list will diminish the likelihood of the success of your pre-proposal being recommended for funding.

References to Project Description

All references cited in the Project Description should be included in bibliographic format. Although there is no established page limitation for the references, this section must include bibliographic citations only, and must not be used to provide parenthetical information outside of the project description.

Facilities and Equipment

All facilities and major items of equipment available for use or assignment to the proposed project during the requested period of support should be described. In addition, items of nonexpendable equipment necessary to conduct and successfully conclude the proposed project should be listed (including dollar amounts), and, if funds are requested for their acquisition, justification should be included in the Budget Justification.

Collaborative or Sub Contractual Arrangements

If the nature of the proposed project requires collaboration or contractual arrangements with other research scientists, corporations, organizations, agencies, etc, the applicant must identify the collaborator(s) and provide a **detailed explanation of the nature** of the collaboration. Evidence in the form of a letter of intent from all collaborators must be provided to assure reviewers that collaborators or sub-contractors involved have agreed to render the indicated services. **The letter of intent must include specific details describing the services the collaborator will provide.**

Curriculum Vitae and Publication List (Maximum four pages per Scientist)

To assist peer reviewers in assessing the competence and experience of the proposed project staff, all personnel who will be involved in the proposed project must be identified clearly. The following should be included for all personnel (PI, Co-Investigators, and secondary scientists (i.e. post-docs, graduate students)) who are expected to work on the project in a significant fashion (e.g. expectation of co-authorship on ensuing publications), whether or not funds are sought for this support:

- *Curriculum Vitae (C.V.)*. The C.V. should be limited to a presentation of academic and research credentials, e.g., educational, employment and professional history, and honors and awards. Unless pertinent to the project, do not include meetings attended, seminars given, or personal data such as birth date, marital status, or community activities.
- *Publication List*. A chronological list of all publications in refereed journals during the past five years, including those in press, should be provided for each professional project member for whom a curriculum vitae is provided. Non-refereed technical publications that have relevance to the proposed project may be included.

The C.V. and Publication List combined must not exceed four pages per scientist. C.V. and Publication Lists for collaborators or sub-contractors are not required.

Current and Pending Support

All project pre-proposals must contain a completed Current and Pending Support Page listing other current public or private support to which key personnel (PI and Co-PIs only) identified in the pre-proposal have committed portions of their time, whether or not salary support for person(s) involved is included in the budget. Analogous information must be provided for any pending proposals that are being considered by, or that will be submitted in the near future to, other possible sponsors, including other USDA Programs or agencies, and the USWBSI. Concurrent submission of identical or similar proposals to the other possible sponsors will not prejudice pre-proposal review or evaluation by the USWBSI for this purpose. However, a project pre-proposal that duplicates or overlaps substantially with a **proposal already reviewed and funded (or to be funded)** by another organization or agency will not be recommended under this program. The third column ('Requested/Award Amount') on the 'Current and

Pending Support Page' has been divided into two sub-columns: Total \$ Amount and PI \$ Allocation. For each grant/proposal listed, **include both the total ('Total \$ Amount') and the amount you have or may receive ('PI \$ Allocation')**.

Budget and Budget Justification

Please complete the new '**FY08 RA Project Pre-Proposal Budget Justification Form**' by following the instructions on the form, and also the '**FY08 RA Project Pre-Proposal Budget Page.**' USDA-ARS does not set a limit on the amount of indirect costs that can be allowed. However, the USWBSI's review process will focus on the **competitiveness of total** project costs (direct and indirect). Because Fusarium head blight is such a severe problem for the U.S. wheat and barley industries, the USWBSI encourages institutions to limit indirect costs to 5%. Excessive indirect cost rates may prejudice the Steering Committee's final funding recommendations to USDA-ARS.

Tuition remission is **permitted** under USDA-ARS **extramural agreements** with any type of recipient organization (i.e. universities). If tuition remission is budgeted as a direct cost, it should be included in the "Other Direct Costs" category of the Budget Page (Section H).

Depending on your institution's requirements, the authorized organizational representative's signature may not be required at this stage (not required for PIs affiliated with USDA-ARS).

Performance Reports

If you received funding in FY06 (approximately May 2006 through April 2007), attach your **entire** FY06 Final Performance Report. **Required even if not relevant to proposed project pre-proposal.**

**Check-list and Order of Required Items for Research Area
(FSTU, GDER and PBG) Project Pre-Proposals**

- Check-list of Required Items for Pre-Proposal (completed and signed)
- Application for Funding Cover Page– PI and Co-Investigators signature(s) required
(*See page 1 for guidelines on faxed signatures.*)
- Project Summary Page (**must fit within text box**)
- Summary of Progress for Previously Funded Project – FY07 (**one page maximum**)
- Project Description (**five pages or less written text; ten pages or less in total including figures and tables**)
- References to Project Description
- Facilities and Equipment
- Collaborative Arrangements (**must include letters of intent from each collaborator**)
- Curriculum Vitae and Publication List (**maximum of four pages total per scientist**)
- Current and Pending Support (CPS) Page (**complete one CPS per scientist**)
- FY08 Project Pre-Proposal Budget Justification Form
- FY08 Project Pre-Proposal Budget Page – **PI Signature required**
- FY06 Final Performance Report (**include entire report if received funding in FY06**)

Submission Deadline: **September 18, 2007, 5:00 PM (EDT)**

Check-list for Required Items for RA Pre-Proposals

This Check-list must be completed, signed and submitted with your FY08 Pre-proposal. By signing this form, you have indicated that all required items are included in your submitted pre-proposal. Pre-proposals that are submitted which are not accompanied by this form may be returned.

- _____ 1. Cover Page of Application
- _____ 2. Project Summary Page
- _____ 3. Summary of Progress for Previously Funded Project (if applicable – i.e. received funding in FY07)
- _____ 4. Project Description (limit 5 pages for text; 10 pages total)
- _____ 5. References to Project Description
- _____ 6. Facilities and Equipment
- _____ 7. Collaborative Arrangements including letters (can be in e-mail format) from collaborators describing the services that he/she will provide.
- _____ 8. Curriculum Vitae and Publication List (required for all investigators)
- _____ 9. Current and Pending Support (CPS) Page (one per investigator)
- _____ 10. FY08 RA Project Pre-Proposal Budget Justification Form
- _____ 11. FY08 RA Project Pre-Proposal Budget Page
- _____ 12. FY06 Final Performance Report (applicable if received funding through USWBSI in FY06)

If item is not applicable (e.g. items 3 or 12), enter N/A.

PI's Printed Name

Signature

Date

USWBSI	FY08 RESEARCH AREA (RA) PROJECT PRE-PROPOSAL APPLICATION FOR FUNDING COVER PAGE		
2. LEGAL NAME OF ORGANIZATION TO WHICH AWARD SHOULD BE MADE	3. NAME OF AUTHORIZED ORGANIZATIONAL REPRESENTATIVE	4. a. PHONE NUMBER b. FAX NUMBER c. E-MAIL ADDRESS	
2. ADDRESS <i>(Give complete mailing address and Zip Code-including County)</i>	5. ADDRESS OF AUTHORIZED ORGANIZATIONAL REPRESENTATIVE <i>(If different from Item 2.)</i>		
6. TITLE OF PROPOSED PROJECT (80-character Maximum, including spaces)			
7. APPROXIMATE PERIOD OF PROPOSED PROJECT DATES MAY 2008 – APRIL 2009	8. DURATION REQUESTED 12 MONTHS	9. TOTAL FUNDS REQUESTED \$ _____ IDC Rate _____%¹	
10. PRINCIPAL INVESTIGATOR AND CO-INVESTIGATOR (S) a. Name of Principal Investigator (First, Middle, Last) b. Name of Co-Investigator #1 (First, Middle, Last) c. Name of Co-Investigator #2 (First, Middle, Last) d. Name of Co-Investigator #3 (First, Middle, Last) e. Name of Co-Investigator #4 (First, Middle, Last)		11. a. PI'S PHONE UMBER: b. FAX NUMBER: c. E-MAIL ADDRESS: 12. PI's BUSINESS ADDRESS (Include Department/Zip Code) ALTERNATE SHIPPING ADDRESS (i.e. FEDEX)	
13. LIST THE TITLES OF ALL CURRENTLY FUNDED PROJECTS (PI ONLY) IN ASSOCIATION WITH THE USWBSI <i>(approx. May 2007 - April 2008)</i> 1) _____ 2) _____ 3) _____		15. WILL THIS PROJECT BE SENT OR HAS IT BEEN SENT TO OTHER FUNDING AGENCIES, INCLUDING OTHER USDA AGENCIES? [] No [] Yes <i>(If yes, list Agency acronym(s) & program(s) and fill in attached "Current and Pending" Form.)</i> 16. DESIGNATE WITH AN 'X' <u>ONE</u> RESEARCH AREA (RA) WHOSE DESCRIPTION AND PRIORITIES YOUR PROJECT IS DESIGNED TO ADDRESS. Food Safety, Toxicology, and Utilization of Mycotoxin- ____ Contaminated Grain (FSTU) Gene Discovery and Engineering Resistance (GDER) ____ Pathogen Biology and Genetics (PBG) ____ None of the Above ____	
FOR OFFICE USE ONLY []N []C (_____) CBCC EEDF FSTU GET HGR HGG PGG VDUN			FY08-
SIGNATURE OF PRINCIPAL INVESTIGATOR <i>(All individuals listed in block 10 must sign.)</i>			DATE
SIGNATURE OF AUTHORIZED ORGANIZATIONAL REPRESENTATIVE <i>(Not required by USWBSI)</i>		TITLE	DATE

This form is a modified version of the CSREES-661 Form.
¹IDC rate' refers to Indirect Cost Rate or Overhead Rate (Not applicable for USDA-ARS PIs).

PROJECT SUMMARY PAGE

Principal and Co-Investigator(s):

Principal Investigator:	Institution:
Co-Investigator #1:	Institution:
Co-Investigator #2:	Institution:
Co-Investigator #3:	Institution:
Co-Investigator #4:	Institution:

Project Title: <i>(80-character Maximum)</i>	
Key Words:	

(To be used by text search engines)

PROJECT SUMMARY

(use minimum 12 point font and not less than single spacing)

This form is a modified version of the CSREES-1232 Form.
 "Summary of Progress for Ongoing Related Funded Project(s)" should follow this page (See Instructions).

CURRENT AND PENDING SUPPORT PAGE

(Each investigator must submit separate form.)

Instructions:

1. Record information for active and pending projects, **including pre-proposals submitted to the USWBSI.**
2. All current research to which principal investigator(s) and other senior personnel have committed a portion of their time must be listed, whether or not salary for the person involved is included in the budgets of the various projects.
3. Provide analogous information for all proposed research which is being considered by, or which will be submitted in the near future to, other possible sponsors including other USDA programs ant the USWBSI.

PRINCIPAL INVESTIGATOR (PI)	SUPPORTING AGENCY	REQUESTED/AWARD AMOUNT		EFFECTIVE AND EXPIRATION DATES	TITLE AND OBJECTIVES OF PROJECT
		Total \$ Amount	PI \$ Allocation		
Current:					Title: Objectives:
					Title: Objectives:
					Title: Objectives:
					Title: Objectives:
					Title: Objectives:
Pending:					Title: Objectives:
					Title: Objectives:
					Title: Objectives:
					Title: Objectives:
					Title: Objectives:

This form is a modified version of the CSREES-663 Form.

FY08 RA PROJECT PRE-PROPOSAL BUDGET JUSTIFICATION FORM

FY08 RA Project Pre-Proposal Title:	
Principal Investigator:	
	Total Requested Amount: \$

Instructions: Complete all applicable sections below. If budget category is not applicable, enter 'N/A'.

A. <u>Direct Labor (salaries and wages):</u> List below the number and titles of personnel, percentage of time/total hours to be devoted to the grant, and rates of pay. Please list according to category (i.e. Senior Personnel, Post-Docs, Graduate Students, etc)	<u>\$ per Category</u>

B. <u>Fringe Benefits:</u> For each category of personnel (i.e. Senior Personnel, Post-Docs, Graduate Students, etc.), list below the fringe rates and amounts.	<u>\$ per Category</u>

D. <u>Nonexpendable Equipment:</u> List below items, dollar amounts below and relevance to proposed research.	<u>\$ per Item</u>

E. <u>Materials and Supplies:</u> Provide below as much detail and specificity as possible for all materials and supplies associated with proposed research. Materials and Supplies should be described according to major categories, e.g., chemical reagents, computer paper and supplies, glassware, lumber, etc.	<u>Total \$ Requested</u>

F.1. <u>Domestic Travel (DT):</u> List below proposed trips individually and describe their purpose in relation to the grant. Also provide dates, destination, and number of travelers where known.	<u>Total \$ Requested</u>

F.2. <u>Foreign Travel (FT):</u> List below proposed trips individually and describe their purpose in relation to the grant. Also provide dates, destination, and number of travelers where known.	<u>Total \$ Requested</u>

G. <u>Publications Costs/Page Charge:</u> Provide below an estimate number of papers, total pages, and total cost.	<u>Total \$ Requested</u>

H. <u>Computer (ADPE) Costs:</u> Provide below the type of service and total cost.	<u>Total \$ Requested</u>

I. <u>Other Direct Costs:</u> Enter below a brief description of any other direct costs not listed above and the total for each cost. The budget justification should address each item and the basis for the estimate.	<u>\$ per Item</u>

K. <u>Indirect Costs:</u> Provide below your Institution's approved Indirect Cost (IDC) rate for USWBSI/USDA-ARS grants.	<u>Total \$ of IDC</u>

FY08 RA PROJECT PRE-PROPOSAL BUDGET PAGE

PROJECT TITLE (Same as 'Cover Page'):		FY08 Funds Requested
PRINCIPAL INVESTIGATOR:		
A. Salaries and Wages		
1. No. of Senior Personnel		
a. ___ PI/Co-Investigators →		
<i>Please Note: Make sure explanation is included in 'Budget Justification'</i>		
2. No. of Other Personnel (Non-Faculty)		
a. ___ Research Associates-Post-doctorate Fellows →		
b. ___ Other Professionals →		
c. ___ Graduate Students →		
d. ___ Undergraduate Students →		
e. ___ Secretarial-Clerical →		
f. ___ Technical, Shop and Other →		
Total Salaries and Wages →		
B. Fringe Benefits (If charged as Direct Costs) →		
C. Total Salaries, Wages, and Fringe Benefits (A plus B) →		
D. Nonexpendable Equipment (A detailed explanation listing items and dollar amounts should be included in the Budget Justification.) →		
E. Materials and Supplies →		
F. Travel		
1. Domestic (Including Canada) →		
Do you plan to attend the 2008 National FHB Forum?		YES [] NO []
2. Foreign (List destination and amount for each trip.) →		
G. Publication Costs/Page Charges →		
H. All Other Direct Costs (A detailed explanation listing items and dollar amounts should be included in the Budget Justification.) →		
I. Total Direct Costs (C through I) →		
J. Indirect Costs If Applicable (Not applicable for PIs affiliated with ARS.) IDC Rate _____ % →		
K. Total Direct and Indirect Costs (I plus J) →		
L. Total Amount of This Request →		\$
NAME AND TITLE (Type or Print)	SIGNATURE	DATE
Principal Investigator		
Authorized Organizational Representative	(Optional)	

This form is a modified version of the CSREES-55 Form.

SECTION 3:

FHB MANAGEMENT (MGMT) PROJECT PRE-PROPOSALS – ELECTRONIC SUBMISSION

INTRODUCTION

Do I have to submit my MGMT pre-proposal electronically?

If you are submitting a pre-proposal in the area of FHB Management, and the focus of the proposed research is not on Barley or Hard Winter Wheat, you must complete your pre-proposals following the instructions in this section of the RFP, and submit it via the redesigned EPS System.

OVERVIEW OF THE ELECTRONIC SUBMISSION PROCESS FOR FHB MANAGEMENT (MGMT) PRE-PROPOSALS

The instructions for completing the electronic pre-proposal are very similar to those for submitting a paper copy. The three main differences are that you must pre-register your pre-proposal, your pre-proposal must be organized into three separate files, and that the final submission of your pre-proposal will be done electronically rather than mailing a paper copy. Below are the steps you will take to complete and submit your MGMT pre-proposal:

- a. Complete the web-based '[Pre-registration Form](#)' no later than August 31st. During this step, PIs are providing contact information and general information about their pre-proposal (e.g. Title). This information will be used to setup PI accounts in the EPS system. The URL for accessing the Pre-Registration is http://www.scabusa.org/cgi-bin/pre_reg.cgi. This step must be completed before pre-proposals may be uploaded to the EPS system.
- b. You will complete your pre-proposal following the instructions and using the forms provided in this RFP. **NOTE:** You do not have to complete the 'Pre-Registration' Process before you begin working on your Pre-proposal. Your final pre-proposal must be completed as three separate files based on the following:
 - **FILE 1– FHB Management-EPS Forms** (Application for Funding Cover Page, Project Summary, Current and Pending Support Form (PI and Co-PIs), Budget Justification Form and Single Project Budget Page).
 - **FILE 2– Body of Pre-Proposal**– Contains the following:
 - Summary of Progress for Ongoing Related Project(s)
 - Project Description
 - References to Project Description
 - Facilities and Equipment
 - Collaborative Arrangements
 - Letters of Intent from Collaborators and Co-Investigators (letter from Co-PI will substitute signature on 'Application for Funding Cover Page') – *may be in the form of e-mail messages pasted into Word Document.*
 - **FILE 3– Curriculum Vitae and Publication List** (PI, Co-PIs, project personnel)
- c. Login to the EPS System using the information received following the 'Pre-Registration' (if pre-registered prior to August 1st, you will receive (via e-mail) your login information no later than August 3rd). Following the instructions in the 'Help Document' (included in e-mail containing your access information), proceed to upload the three separate files (MGMT-EPS Forms, Body of Pre-Proposal, and Curriculum Vitae and Publication List) following the simple instructions. The files you upload can be in either MS Word format or Adobe PDF format. The system will automatically convert MS Word files to PDF.

NOTE: If a bibliography software program (i.e. Endnotes or Reference Manager) is used to generate any component of your pre-proposal (e.g. ‘References to Project Description’ or ‘Publications’), it is recommended that you convert the files containing those items to a PDF file before uploading to the EPS system.

As the USWBSI does not require signatures by the Authorized Organizational Representatives (AORs) on pre-proposals, institutional AOR’s will not be granted access to the EPS System.

Important Dates for EPS System and deadlines for MGMT Pre-Proposals:

- July 2: Pre-registration of MGMT Pre-Proposals begins.
- Aug 1: EPS System Opens (if you pre-registered prior to this date, you will receive your access information on or within 48 business hours after Aug. 1).
- Aug 31: Pre-registration of MGMT Pre-Proposals ends.
- Sept. 18: Deadline for final submission of MGMT pre-proposal.

INSTRUCTIONS

FILE 1: FHB Management-EPS Forms

Application for Funding Cover Page

The pre-proposal must contain a completed ‘Application for Funding Cover Page’, which will be the first page of the application. In completing this form, please note the following:

- *Title of Proposal (Block 6).* The title of the project pre-proposal must be brief (**80-character maximum**), yet represent the major thrust of the project. Because this title will be used to provide information to those who may not be familiar with the proposed project, highly technical words or phraseology should be avoided where possible. In addition, phrases such as “investigation of” or “research on” should not be used.
- *Principal Investigator/Co-Investigators (Block 10).* List the name of the proposing principal investigator in this block. All other participating scientist should be listed as co-investigators. The co-investigators should be limited to those required for major scientific collaboration.
- *Currently Funded Projects (Block 13).* List the titles of all individual research projects that are currently being funded in FY07 (approx. May 2007 – April 2008) in association with the USWBSI/ARS collaboration.
- *Research Area (Block 16).* Your Project Pre-Proposal should be constructed to address one or more of the priorities included in the FY08 Program Description and Research Priorities. In Block 16, designate with an '**X**' one Research Area whose description and priorities your project is designed to address. Research Area (RA) Program Descriptions and Research Priorities (PD-RP) are included in this application. You can also view them on the Initiative’s Web site at www.scabusa.org/research.html.
- *Signatures.* Sign and date the Pre-proposal Application for Funding Cover Page in the places indicated at the bottom of the page. The principal investigator, and if applicable, all co-investigators, must sign all project pre-proposals. Signatures for co-investigators may initially be represented by faxed copies of the cover page, but PI’s should arrange for the Networking &

Facilitation Office (NFO) to receive a cover page with ink signatures of all co-investigators as soon as possible.

Project Summary Page

Each project pre-proposal must contain a completed Project Summary Page, which will be the second page of the project pre-proposal. The names and institutions of all of the principal and co-investigators should be listed on this form (if space for this information is insufficient, please enter “see attached” and provide the information on a separate sheet immediately following the Project Summary Page). The project summary itself must fit within the space indicated. The summary is not intended for the general reader; consequently, it may contain technical language relating to Fusarium head blight research. The project summary should be self-contained, include a specific description of the activity to be undertaken, and focus on the following:

- Overall project goal(s)
- Project Objectives (list in numbered format) and Expected Outcomes;
- Plans to accomplish project goal(s) within period of proposed work (**one-year duration**); and
- Relevance of the project to the goals of the U.S. Wheat and Barley Scab Initiative with specific reference to the research priorities listed in the FY08 Program Descriptions and Research Priorities (PD-RP).

A concise, informative project summary is essential. Project Summaries are considered part of the pre-proposal and are therefore confidential. The complete Project Summary should fit within the space allocated in the form.

Current and Pending Support

All project pre-proposals must contain a completed Current and Pending Support Page listing other current public or private support to which key personnel (PI and Co-PIs only) identified in the pre-proposal have committed portions of their time, whether or not salary support for person(s) involved is included in the budget. Analogous information must be provided for any pending proposals that are being considered by, or that will be submitted in the near future to, other possible sponsors, including other USDA Programs or agencies, and the USWBSI. Concurrent submission of identical or similar proposals to the other possible sponsors will not prejudice pre-proposal review or evaluation by the USWBSI for this purpose. However, a project pre-proposal that duplicates or overlaps substantially with a **proposal already reviewed and funded (or to be funded)** by another organization or agency will not be recommended under this program. The third column (‘Requested/Award Amount’) on the ‘Current and Pending Support Page’ has been divided into two sub-columns: Total \$ Amount and PI \$ Allocation. For each grant/proposal listed, **include both the total (‘Total \$ Amount’) and the amount you have or may receive (‘PI \$ Allocation’)**.

Budget and Budget Justification

Please complete the new ‘**FY08 MGMT Project Pre-Proposal Budget Justification Form**’ by following the instructions on the form, and also the ‘**FY08 MGMT Project Pre-Proposal Budget Page.**’ USDA-ARS does not set a limit on the amount of indirect costs that can be allowed. However, the USWBSI’s review process will focus on the **competitiveness** of **total** project costs (direct and indirect). Because Fusarium head blight is such a severe problem for the

U.S. wheat and barley industries, the USWBSI encourages institutions to limit indirect costs to 5%. Excessive indirect cost rates may prejudice the Steering Committee's final funding recommendations to USDA-ARS.

Tuition remission is **permitted** under USDA-ARS **extramural agreements** with any type of recipient organization (i.e. universities). If tuition remission is budgeted as a direct cost, it should be included in the "Other Direct Costs" category of the Budget Page (Section H).

FILE 2: Body of FHB Management Pre-Proposal

Summary of Progress for Ongoing Related Project(s) – *Limit to a single page per project.*

The purpose of this section is to enable PI's to demonstrate that they have made (or are moving towards) effective use of funds for ongoing USWBSI-recommended projects **related to** the current pre-proposal. This includes projects which were initially funded this year (FY07). Include the following information for each **relevant** ongoing project:

- Project Title;
- brief summary of activities (including non-data generating items such as hiring of personnel, equipment acquisition, etc.), any results and/or accomplishments made to date (include actual data documenting progress made since FY06 funding was awarded); and
- any information that will help reviewers understand how the current pre-proposal builds upon the ongoing project.

Project Description

The Project Description should provide a clear statement of the work to be undertaken and must include: research objectives for the **period of the proposed work** and expected significance; relation to longer-term goals of the PI's project; and relation to the present state of knowledge in the field, to work in progress by the PI under other support and to work in progress elsewhere.

The Project Description should outline the general plan of work, including the broad design of activities to be undertaken, and, where appropriate, provide a **clear description** of experimental methods and procedures, and plans for preservation, documentation, and sharing of data, samples, physical collections, curriculum materials and other related research and education products.

- i. **Format:** Brevity will assist reviewers and USWBSI/NFO staff /reviewers in dealing effectively with pre-proposals. **Therefore, the written text of the Project Description must be five pages or less (single spaced or equivalent); ten pages or less in total including figures and tables.** The Project Description should be formatted using Times New Roman (Normal type except headings and 12 point or higher) with one-inch margins. **NOTE:** Bold formatting should only be used for section headings or used minimally to emphasize importance or significance. Conformance to the format requirements will be strictly enforced.

- ii. **Content:**

- *Title.* Same as Funding Cover Page (**80-Character Maximum**).
- *Introduction.* A clear statement of the goal(s) and supporting objectives or research questions of the proposed project should be included. **These are one-year projects; include**

only those research objectives which can be accomplished within one year. The most significant published work in the field under consideration, including the work of key project personnel on the current application, should be reviewed. The current status of research in this field of science should also be described **including, but not limited to, any ongoing USWBSI-recommended work currently underway. Preliminary data pertinent to the proposed research may be included in this section.** Present and discuss published literature that is directly related to, and supports, the proposed research (research objectives, materials and methods)

- *Rationale and Significance.* It is understood that head scab is a devastating disease. **Acknowledgment of this fact should require no more than one sentence.** Concisely present the rationale behind the proposed research; identify the gaps in the knowledge base that your pre-proposal is trying to fill. Relevance of the project to the goals of the U.S. Wheat and Barley Scab Initiative with specific reference to the priorities listed in the FY08 Program Descriptions and Research Priorities (PD-RP). If applicable, please indicate if the research proposed here could lead to successful acquisition of grant funds from other agencies.
- *Research Materials and Methods.* Specifically, this section must include:
 - The hypotheses or questions being asked;
 - A description of the investigations and/or experiments proposed **in the sequence** in which the investigation or experiments are to be performed;
 - Techniques and methodologies to be used in carrying out the proposed project, including the feasibility of the techniques. **(Describe in step by step fashion exactly what techniques, materials and methods will be used.);**
 - Results expected;
 - Means by which experimental data will be analyzed or interpreted;
 - Means of applying results or accomplishing technology transfer, where appropriate;
 - Pitfalls that may be encountered;
 - Limitations to proposed procedures; and
 - A tentative schedule for conducting major steps involved in these investigations and/or experiments.

Please Note: Failure to address each of the issues in the bullet list will diminish the likelihood of the success of your pre-proposal being recommended for funding.

References to Project Description

All references cited in the Project Description should be included in bibliographic format. Although there is no established page limitation for the references, this section must include bibliographic citations only, and must not be used to provide parenthetical information outside of the project description.

Facilities and Equipment

All facilities and major items of equipment available for use or assignment to the proposed project during the requested period of support should be described. In addition, items of nonexpendable equipment necessary to conduct and successfully conclude the proposed project should be listed

(including dollar amounts), and, if funds are requested for their acquisition, justification should be included in the Budget Justification.

Collaborative or Sub Contractual Arrangements

If the nature of the proposed project requires collaboration or contractual arrangements with other research scientists, corporations, organizations, agencies, etc, the applicant must identify the collaborator(s) and provide a **detailed explanation of the nature** of the collaboration. Evidence in the form of a letter of intent from all collaborators must be provided to assure reviewers that collaborators or sub-contractors involved have agreed to render the indicated services. **The letter of intent must include specific details describing the services the collaborator will provide.**

FILE 3: Curriculum Vitae and Publication List

To assist peer reviewers in assessing the competence and experience of the proposed project staff, all personnel who will be involved in the proposed project must be identified clearly. The following should be included for all personnel (PI, Co-Investigators, and secondary scientists (i.e. post-docs, graduate students)) who are expected to work on the project in a significant fashion (e.g. expectation of co-authorship on ensuing publications), whether or not funds are sought for this support:

- *Curriculum Vitae (C.V.)*. The C.V. should be limited to a presentation of academic and research credentials, e.g., educational, employment and professional history, and honors and awards. Unless pertinent to the project, do not include meetings attended, seminars given, or personal data such as birth date, marital status, or community activities.
- *Publication List*. A chronological list of all publications in refereed journals during the past five years, including those in press, should be provided for each professional project member for whom a curriculum vitae is provided. Non-refereed technical publications that have relevance to the proposed project may be included.

The C.V. and Publication List combined must not exceed four pages per scientist. C.V. and Publication Lists for collaborators or sub-contractors are not required.

Check-list and Order of Required Items for MGMT Project Pre-Proposals

- **FILE 1: FHB Management Forms**
 - Application for Funding Cover Page
 - Project Summary Page (*must fit within text box*)
 - Current and Pending Support (CPS) Page (*complete one CPS per scientist*)
 - Budget Justification Form
 - Project Pre-Proposal Budget Page

- **FILE 2: Body of FHB Management Pre-Proposal**
 - Summary of Progress for Previously Funded Project – FY07 (*one page maximum*)
 - Project Description (*five pages or less written text; ten pages or less in total including figures and tables*)
 - References to Project Description
 - Facilities and Equipment
 - Collaborative Arrangements (i.e. description)
 - Letters of intent from each collaborator and/or Co-PI

- **FILE 3: Curriculum Vitae and Publication List** (*maximum of four pages total per scientist*)

- **FY06 Final Performance Report** (*This component will be uploaded by the NFO to the EPS system.*)

RFP DEADLINES FOR FHB MANAGEMENT PRE-PROPOSALS

Pre-Registration Deadline: August 31, 2007, 5:00 PM

Final Pre-Proposal Submission Deadline: September 18, 2007, 5:00 PM

PROJECT SUMMARY PAGE

Principal and Co-Investigator(s):

Principal Investigator:	Institution:
Co-Investigator #1:	Institution:
Co-Investigator #2:	Institution:
Co-Investigator #3:	Institution:
Co-Investigator #4:	Institution:

Project Title: <i>(80-character Maximum)</i>	
Key Words:	

(To be used by text search engines)

PROJECT SUMMARY

(use minimum 12 point font and not less than single spacing)

This form is a modified version of the CSREES-1232 Form.
 "Summary of Progress for Ongoing Related Funded Project(s)" should follow this page (See Instructions).

CURRENT AND PENDING SUPPORT PAGE

(Each investigator must submit separate form.)

Instructions:

1. Record information for active and pending projects, **including pre-proposals submitted to the USWBSI.**
2. All current research to which principal investigator(s) and other senior personnel have committed a portion of their time must be listed, whether or not salary for the person involved is included in the budgets of the various projects.
3. Provide analogous information for all proposed research which is being considered by, or which will be submitted in the near future to, other possible sponsors including other USDA programs ant the USWBSI.

PRINCIPAL INVESTIGATOR (PI)	SUPPORTING AGENCY	REQUESTED/AWARD AMOUNT		EFFECTIVE AND EXPIRATION DATES	TITLE AND OBJECTIVES OF PROJECT
		Total \$ Amount	PI \$ Allocation		
Current:					Title: Objectives:
					Title: Objectives:
					Title: Objectives:
					Title: Objectives:
					Title: Objectives:
Pending:					Title: Objectives:
					Title: Objectives:
					Title: Objectives:
					Title: Objectives:
					Title: Objectives:

This form is a modified version of the CSREES-663 Form.

FY08 MGMT PROJECT PRE-PROPOSAL BUDGET JUSTIFICATION FORM

FY08 RA Project Pre-Proposal Title:	
Principal Investigator:	
Total Requested Amount:	\$

Instructions: Complete all applicable sections below. If budget category is not applicable, enter 'N/A'.

A. <u>Direct Labor (salaries and wages):</u> List below the number and titles of personnel, percentage of time/total hours to be devoted to the grant, and rates of pay. Please list according to category (i.e. Senior Personnel, Post-Docs, Graduate Students, etc	<u>\$ per Category</u>

B. <u>Fringe Benefits:</u> For each category of personnel (i.e. Senior Personnel, Post-Docs, Graduate Students, etc.), list below the fringe rates and amounts.	<u>\$ per Category</u>

D. <u>Nonexpendable Equipment:</u> List below items, dollar amounts below and relevance to proposed research.	<u>\$ per Item</u>

E. <u>Materials and Supplies:</u> Provide below as much detail and specificity as possible for all materials and supplies associated with proposed research. Materials and Supplies should be described according to major categories, e.g., chemical reagents, computer paper and supplies, glassware, lumber, etc.	<u>Total \$ Requested</u>

F.1. <u>Domestic Travel (DT):</u> List below proposed trips individually and describe their purpose in relation to the grant. Also provide dates, destination, and number of travelers where known.	<u>Total \$ Requested</u>

<p>F.2. Foreign Travel (FT): List below proposed trips individually and describe their purpose in relation to the grant. Also provide dates, destination, and number of travelers where known.</p>	<p><u>Total \$ Requested</u></p>

<p>G. Publications Costs/Page Charge: Provide below an estimate number of papers, total pages, and total cost.</p>	<p><u>Total \$ Requested</u></p>

<p>H. Computer (ADPE) Costs: Provide below the type of service and total cost.</p>	<p><u>Total \$ Requested</u></p>

<p>I. Other Direct Costs: Enter below a brief description of any other direct costs not listed above and the total for each cost. The budget justification should address each item and the basis for the estimate.</p>	<p><u>\$ per Item</u></p>

<p>K. Indirect Costs: Provide below your Institution's approved Indirect Cost (IDC) rate for USWBSI/USDA-ARS grants.</p>	<p><u>Total \$ of IDC</u></p>

FY08 MGMT PROJECT PRE-PROPOSAL BUDGET PAGE

PROJECT TITLE (Same as 'Cover Page):		FY08 Funds Requested
PRINCIPAL INVESTIGATOR:		
A. Salaries and Wages		
1. No. of Senior Personnel		
a. ___ PI/Co-Investigators→		
<i>Please Note: Make sure explanation is included in 'Budget Justification'</i>		
2. No. of Other Personnel (Non-Faculty)		
a. ___ Research Associates-Post-doctorate Fellows.....→		
b. ___ Other Professionals.....→		
c. ___ Graduate Students→		
d. ___ Undergraduate Students→		
e. ___ Secretarial-Clerical.....→		
f. ___ Technical, Shop and Other→		
Total Salaries and Wages →		
B. Fringe Benefits (If charged as Direct Costs) →		
C. Total Salaries, Wages, and Fringe Benefits (A plus B) →		
D. Nonexpendable Equipment (A detailed explanation listing items and dollar amounts should be included in the Budget Justification.)→		
E. Materials and Supplies→		
F. Travel		
1. Domestic (Including Canada)→		
Do you plan to attend the 2008 National FHB Forum?		YES [] NO []
2. Foreign (List destination and amount for each trip.)→		
G. Publication Costs/Page Charges →		
H. All Other Direct Costs (A detailed explanation listing items and dollar amounts should be included in the Budget Justification.)→		
I. Total Direct Costs (C through I)→		
J. Indirect Costs If Applicable (Not applicable for PIs affiliated with ARS.) IDC Rate _____ % →		
K. Total Direct and Indirect Costs (I plus J)→		
L. Total Amount of This Request→		\$
NAME AND TITLE (Type or Print)	SIGNATURE	DATE
Principal Investigator		
Authorized Organizational Representative	(Optional)	

This form is a modified version of the CSREES-55 Form.