PERSUAP Pesticide Questionnaire

INSTRUCTIONS:
It is the responsibility of all SANREM CRSP PI's to ensure that their host country partner(s) complete this questionnaire for **each proposed pesticide** to be used in the project. All sections are required. If any information is lacking or insufficient, the questionnaire will be returned to you for completion. Successful initiation of research activities is dependent on host country partner's timely completion of all questionnaire items. The ME will finalize your submission based on your completed questionnaire and the accompanying report based on Form 24A - PERSUAP Narrative. Please send completed reports and questionnaires to: mulvamj@vt.edu.

A. The registration status of the requested pesticide (USEPA and host country).

a. What is the brand name, common name, and/or trade name of the pesticide?

b. What is the generic name of the pesticide?

c. In which countries is the product proposed for use?

d. What is the registration status within the host country (permitted, restricted, or banned)?

e. What is the Registration Number within the host country (if available)?

B. The basis for selection of the requested pesticide.

a. What type of pesticide is this product (herbicide, fungicide, insecticide, nematicide, miticide, rodenticide, pheromone, fumigant, growth regulator, etc.)?

b. What crops will it be used in?

c. How often will it be applied?

d. Why did you choose this pesticide (i.e., available commercially, safe to use, highly effective, quick action, selectivity for target organisms, etc.)?

C. Extent to which the proposed pesticide is part of an Integrated Pest Management program.
[NOTE: All SANREM CRSP activities are expected utilize integrated pest management (IPM) to minimize pesticide use for pest and weed control, improve profitability, and minimize potential environmental consequences (see p. 2 of RFA).]

a. Describe how the pesticide fits into an IPM program, such as:
    i. Maintenance (i.e., pesticides used in research that are not the objective of the research).
    ii. It is selective for target organisms.
    iii. Part of developing a resistance management package.
    iv. Used under current extension recommendations.
    v. It is proposed for use as an experimental treatment in order to test the efficacy of less toxic alternatives for replacement.
    vi. Research on product substitution (e.g. better efficacy, lower toxicity, narrower host range, lower cost).

b. Is the pesticide used in rotation with other pesticides with a different mode of action?

c. Is this pesticide an improvement over another pesticide? If so, how?

d. Is the pesticide selective or broad-spectrum?

e. What is/are the target organism(s) of this pesticide?

D. Proposed method or methods of application, including availability of appropriate application and safety equipment.

a. What is the method of application (backpack sprayer, boom, aerial, via irrigation, hooded sprayer, spot application, etc.?)

b. What is the rate of application (if known)?

c. How much land will the pesticide be applied to?

d. When will the pesticide be used?

e. Which of the following, if any, will be provided to personnel when mixing, loading, applying and disposing the pesticide: chemical resistant gloves, long-sleeved shirt, long pants, chemical resistant footwear and socks, shoes and socks, chemical resistant apron, protective eyewear?

E. The effectiveness for the proposed use.

a. What is the target organism, if not stated in Part C?

b. How effective is the pesticide against the target organism?

c. How long does the pesticide take to be effective?

d. On what crop(s) will this pesticide be used, if not stated in Part B?

F. Conditions under which the pesticide is to be used, including climate, flora, fauna, geography, hydrology, and soils.

a. Please describe the location and climate of the project site.

b. What is the general topography (i.e. farm fields on slopes in mountainous areas, fields at low elevation frequently near streams, well-drained fields in semi-arid climate with seasonal rains)

c. What slopes soil types will the pesticide be used on? Are the soils sandy?

d. Are there any wells, water sources, perennial or intermittent streams or rivers, natural or impounded lakes or reservoirs within 200 feet of the application site(s)?

e. Will the pesticide be applied to highly erodible land?

f. Do the sites favor runoff?

G. Availability and effectiveness of other pesticides or nonchemical control methods.

a. Are other pesticides are available? Are they as effective?

b. If other pesticides are available and effective, why did you choose this product?

c. Is this pesticide used as an experimental treatment in the study? If so, what other pesticides are used for comparison?

H. Requesting country's ability to regulate or control the distribution, storage, use, and disposal.

a. What is the host country's regulating body for pesticide use?

b. Is it effective?

c. Are there local or regional offices that can be contacted for advice?

I. Provisions made for training of users.

a. Will mixers, loaders, applicators and disposers be supervised and trained by appropriate project personnel during pesticide handling?

b. Will pesticide handlers be supervised and trained in the use of personal protective equipment (PPE)?

c. Will handlers of the pesticide be advised and trained to:
   i. Adhere to all label instructions, including those involving health and environmental hazards?
   ii. Adhere to all mitigation practices for the prevention of possible adverse effects?
   iii. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet?
   iv. Remove clothing immediately if pesticide gets inside?
   v. Remove PPE immediately after handling the pesticide?
   vi. Wash the outside of gloves before removing them?

J. Provision for monitoring the use and effectiveness

a. Please describe your plan for monitoring the use and effectiveness of the pesticide.

b. Will records be kept regarding the use of this pesticide (application rates, areas, dates, methods, personnel)?

c. Will pest resistance to the pesticide be monitored?

d. Will pest resistance be minimized by rotating pesticides with different modes of action? If so, what other pesticides are included in the rotation?