EPA Region 10 & IHS Tribal Pesticide Field Program FY17-20

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Indian Health Service (IHS) and Northwest Portland Area Indian Health Board (NPAIHB)

- IHS has a Cooperative Agreement with NPAIHB to provide health care for an estimated 150,000 Indian residents of the 43 Federally Recognized Tribes located in Idaho, Oregon, and Washington
EPA Region 10 and IHS

- Indian Health Service is working with EPA R10 under an Interagency Agreement to fulfill the EPA Pesticide Field Program on tribal lands.

- The EPA Pesticide Field Program:
  - Helps protect agricultural workers
  - Supports certification and training for users of hazardous pesticides
  - Collaborates in protecting the nation’s water supplies from pesticide risk
  - Promotes comprehensive protection programs such as Integrated Pest Management in both urban and agricultural settings

Muckleshoot Tribal Elementary School
Task 1: Building Program Capacity

- Collect and develop outreach materials: brochures, newsletters, and presentations about pesticide safety and IPM
- Provide educational outreach and training
Task 2: Information Gathering and Pesticide Use Assessments

- Collect information for Portland Area tribes and tribal programs using data indicators in the areas of aquaculture, agriculture, structural, and forestry
  - Basic demographics
  - Number and nature of high-risk facilities
  - Number and nature of tribal programs with pest or pesticide program responsibilities
  - Information on documented human pesticide exposures
  - Site-specific information on pest management and pesticide use
  - Existing tribal laws that relate to pesticides and their effectiveness
Task 3: Outreach Activities and Projects

- Tribal Service Delivery Pest Management Plans
  - Catered to select tribes or tribal programs based on pesticide use and needs assessments

- Corresponding Outreach Activities and Projects
  - Focus on the needs of the tribes and tribal programs
  - Outreach can be targeted for a single tribe or may serve multiple tribes

- Research
  - IHS Child Care Regionally Applied Research Effort (RARE) project
FY17 IHS
Tribal IPM Activities

All conducted by Holly Thompson-Duffy

Tribal IPM Assessments

- Lummi Nation: Tribal School and Tribe Elder Center
- Nooksack Indian Tribe: Nooksack House of Children/Head Start and Early Learning Center
- Muckleshoot Tribe: Tribal School, Child Development Center (2 times)
- Yakama Nation: Tribal School
- Nez Perce Tribe: Tribal Housing Authority Senior Center, Early Childhood Program
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IPM Training

- Lummi Nation: School IPM training for maintenance and kitchen staff
- Yakama Nation: 1.5-hour IPM outreach and assessment training
- Muckleshoot Tribe: 4-hour training on IPM and Pesticide Safety to 21 staff from various tribal programs including the Tribal Housing Authority. 1-hour training on IPM and Pesticide Safety to 9 community members
- Nez Perce Tribe: 1-hour training on rodent IPM to 21 community members.
Technical Assistance

- Yakama Nation: Consultation with Health and Safety Coordinator regarding development of IPM policy, protocols, and plans for all facilities. Reviewed lice policy and provided guidance on bed bug control. Provided recommendations regarding the use of chemical cleaners in toasters.

- Nez Perce Tribe: Provided recommendations regarding an ant infestation in some of the classrooms in the Early Childhood Program. Responded to 2 technical requests for more IPM information.

- Muckleshoot Tribe: Responded to 6 technical requests for further IPM information and recommendations. Provided recommendations to Health and Safety Coordinator at the Child Development Center regarding head lice.

- Led webinar on bed bugs and IPM in tribal communities
Partnership Development

- Coeur d’Alene Circuit Rider: Meeting to discuss Data Indicators Project
- Tribal Bed Bug Workshop: Leadership calls to provide support and discuss content of core outreach package and plan
- Nez Perce Tribe: Meeting with Environmental Outreach Specialist to promote IPM program implementation and pesticide safety policies and procedures
- Annual Pesticide Circuit Rider Meeting: Presented Data Indicators/Assessment Initiative as well as an update on activities, services, and hot topics in relation to the IHS IA
- Created data indicator spreadsheet for all tribes serviced by the Indian Health Service.
- Shared bed bug presentations on the TPPC website to discuss Data

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FY17 IHS Tribal IPM Activities

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IPM Inspections/Assessments

- All IHS School IPM Inspection Reports are very detailed and include:
  - summary statement
  - statement explaining why IPM is important relative to issues noted
  - site-specific findings and recommendations
  - action items to decrease the site’s level of risk
  - action items to increase the site’s level of protection
  - prioritized action items
  - educational handouts
IHS Inspection Report: Examples

Prioritized Action Items
Below is a list of action items identified at the time of the survey, prioritized for your convenience.

Immediate Action Items- should be addressed within 3 months
- Perform deep cleaning of kitchen- under equipment and food storage shelving and the vents
- Request contractor only apply pesticides indoors after school hours
- Clean up dead bird and exposed rodent bait
- Work with pest control contractor to make sure all traps (fly and rodent) are serviced during each visit

Priority Action Items- should be addressed within 12 months
- Restrict access to and around building by rodent proofing. See Attachment A for more on this.
- Restrict eating, drinking and food storage in classrooms
- Provide staff training on IPM- emphasizing pest prevention
- Monitor Pest Vulnerable Areas (PVAs) such as outdoor storage areas, kitchen and food storage

Long Term Action Items- should be addressed within 2-5 years
- Design and implement pesticide use recording protocols and keep records of all applications
- Establish and utilize ongoing monitoring protocols
- Develop and adopt an IPM policy and plan
- Reduce pesticide use as much as possible- only apply pesticides when a pest is present and poses a risk to student and staff health
Image 9: Storage in completely accessible area provide ideal clutter and harborage for pests. Discard or donate any unwanted items; store other items up off the floor ideally on shelves or hooks.

Image 10: Items in storage shed should ideally be stored off the ground on shelves or hooks.
IHS Inspection Report: Examples

Image 1: Food debris and crumbs under food storage shelving. Also pictured on the right is the rodent trap where a mouse was found at the time of the assessment.

Image 2: Clean vents registers more often to reduce grease buildup that can be a food source to pests.
IHS will be conducting a study in conjunction with EPA R10 and ORD to evaluate current exposures to children at tribal child cares currently receiving service by IHS.

- Delayed until Spring 2018
- Lead, PCBs, Pesticides, Allergens, and Mold samples will be collected via soil, surface wipes, and bulk dust.
Objectives

- Assess children’s potential exposures to lead, allergens, pesticides, and PCBs in child care centers in the IHS Portland area.
- Compare our study findings for pesticides, allergens, and lead to the results measured in the National Survey to determine how potential chemical exposures in child care facilities in the Portland Area Indian Country are similar to and different from chemical exposures measured in child care facilities in the continental United States.
- Compare our PCB results to existing studies on PCBs in school environments or other settings where children may spend significant amounts of time. Note: PCBs were not measured in the National Study.
- Translate research into practice by informing participating child care centers of findings and provide training, education materials, and recommended actions to reduce exposures and minimize risks that exist in their facility.
- Assess the proof-of-concept of how non-chemical stressors in IHS direct-service licensed child care centers in the IHS Portland area may modify chemical exposures and impact children’s health and well-being.
- Evaluate the relationship between community factors and indoor air quality in the child care centers in the IHS Portland area.
QUESTIONS?

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