

Environmental Sanitation Inspection Form: Vector Control



Part 1. General information:

- a. Location:
- b. Village/Town:
- c. People served:
- d. Date of visit:

Part 2. Risk assessment: Please adapt this form for the local context. Remove questions that are not appropriate and add questions that are appropriate.

Walk through the community to observe practices and ask community members questions. Be respectful of the community and local traditions. When necessary, seek permission from community leaders to do the inspection.

Circle 'Yes' if there is a potential risk and 'No' if there is no or very low risk. Add notes to the results and comments section on the next page. See explanation on the next page for details about each question.

| | Question | Observation | |
|--|---|-------------|----|
| | | Yes | No |
| 1 | Are there flies where people prepare food? | Yes | No |
| 2 | Are there rats or other rodents in the households? | Yes | No |
| 3 | Are water storage containers or tanks uncovered? | Yes | No |
| 4 | Is there standing water in the community (e.g., flower and plant pots, blocked gutters and drains, open latrines and septic tanks)? | Yes | No |
| 5 | Are there mosquito larvae in water storage containers or standing water? | Yes | No |
| 6 | Are there other places for flies to breed in the community (e.g., garbage dumps, open latrines)? | Yes | No |
| 7 | Are there many people in the community with mosquito-related diseases (e.g., malaria, dengue fever, Japanese Encephalitis)? | Yes | No |
| 8 | Are there many people in the community with rodent-related diseases (e.g., leptospirosis, typhus, hantavirus)? | Yes | No |
| 9 | Are there many people in the community with fly-related diseases (e.g., trachoma)? | Yes | No |
| Risk of contamination (add the number of 'Yes' answers) | | | |

Part 3. Results and comments:

a. Risk of contamination (check the appropriate box):

| | | | |
|-----------------|------------|--------------|-----------|
| 8-9 = Very high | 6-7 = High | 3-5 = Medium | 0-2 = Low |
| | | | |

b. The following risks were observed:

Part 4. Name and signature of inspectors:

Explanatory Notes: Vector Control

1. *Are there flies where people prepare food?* Flies pick up pathogens on their bodies when laying their eggs or feeding and then transport pathogens to people's food, tableware and faces. Flies have a high risk of transmitting pathogens from the environment to people when they are in areas where people prepare food.
2. *Are there rats or other rodents in the households?* Rats and other rodents can find their way into homes, as well as food and grain storage areas. They transmit disease in a number of ways, such as direct contamination through dirt, urine, and feces or fleas carried on their bodies. Controlling them reduces the risk of disease transmission and can also decrease food loss and spoiling.
3. *Are water storage containers or tanks uncovered?* Water storage containers and tanks include rainwater harvesting tanks, buckets, or other containers. Uncovered water storage containers and tanks are ideal breeding sites for mosquitos.
4. *Is there standing water in the community (e.g., flower and plant pots, blocked gutters and drains, open latrines and septic tanks)?* Standing water is water that has pooled or accumulated in an area. Standing water occurs in flower or plant pots, blocked gutters and drains, open latrines and septic tanks. Standing water provides breeding sites for mosquitos.
5. *Are there mosquito larvae in water storage containers or standing water?* Standing water is water that has pooled or accumulated in an area. Standing water provides breeding sites for mosquitos. Mosquito larvae are visible in standing water that is not turbid.
6. *Are there other places for flies to breed in the community (e.g., garbage dumps, open latrines)?* Flies lay their eggs in organic material that provide food for emerging maggots.

Excreta found in unsanitary latrines is ideal for this, as is domestic food waste that is not properly disposed of. Garbage dumps, waste disposal sites, and open latrines are ideal places for flies to breed.

7. *Are there many people in the community with mosquito-related diseases (e.g., malaria, dengue fever, Japanese Encephalitis)?* Mosquito-related diseases include malaria, dengue fever, Japanese Encephalitis, West Nile fever, yellow fever, and chikungunya. If there are many people with these diseases, then there is a high risk of transmission in the community.
8. *Are there many people in the community with rodent-related diseases (e.g., leptospirosis, hantavirus)?* Rodent-related diseases include leptospirosis, typhus, hantavirus, and the plague. If there are many people with these diseases, then there is a high risk of transmission in the community.
9. *Are there many people in the community with fly-related diseases (e.g., trachoma)?* Fly-related diseases include trachoma. Flies also play a role in transmitting many diarrheal diseases. If there are many people with these diseases, then there is a high risk of transmission in the community.

Additional Resources

CAWST (2014). Environmental Sanitation Inspection Forms. CAWST, Calgary, Canada. Available at: www.cawst.org/resources.

- Use this form with the other Environmental Sanitation Inspection forms.

CAWST (2013). Technical Brief: Vector Control. CAWST, Calgary, Canada. Available at: www.cawst.org/resources.

- This technical brief discusses what vectors are, the diseases that they spread and how to control vectors, specifically mosquitos, flies and rodents.

References

Stockholm Environment Institute (1998). Proxy Indicators for Rapid Assessment of Environmental Health Status of Residential Areas: The Case of the Greater Accra Metropolitan Area (GAMA), Ghana. Available at: <http://www.ircwash.org/sites/default/files/Songsore-1998-Proxy.pdf>

CAWST (Centre for Affordable Water and Sanitation Technology)
 Calgary, Alberta, Canada
 Website: www.cawst.org Email: resources@kawst.org
Wellness through Water.... Empowering People Globally
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