Pesticide specialists assign the Certainty Index to each exposed human or animal entity using these criteria:

**Definite**
1) Measured (biomarker) concentration(s), with a highly plausible exposure pathway and specific health effects that are consistent with exposure to the active ingredient(s). Narrative should document:
   a) Reported health effects, specifying those symptoms that are considered consistent with exposure to the active ingredient(s), **AND**
      i) There should be at least one specific symptom that is consistent with exposure to the identified active ingredient(s).
      ii) **NOTE:** A single, non-specific symptom (i.e. headache, nausea) is generally insufficient to classify with a certainty index of ‘Definite.’
   b) A plausible time course between exposure, onset, and duration of symptoms, **AND**
   c) The exposure history, including a clear description of the pathway and circumstances surrounding the exposure, **AND**
   d) The **biomarker concentration that was measured**.

**Probable**
1) A clearly documented and highly plausible exposure pathway, with specific health effects that are consistent with exposure to the active ingredient(s). Narrative should document:
   a) Reported health effects, specifying those symptoms that are considered consistent with overexposure to the active ingredient(s), **AND**
      i) There should be at least one specific symptom that is consistent with overexposure to the identified active ingredient(s).
      ii) **NOTE:** A single, non-specific symptom (i.e. headache, nausea) is generally insufficient to classify with a certainty index of ‘Probable.’
   b) A plausible time course between exposure, onset, and duration of symptoms, **AND**
   c) The exposure history, including a clear description of the pathway and circumstances surrounding the exposure.

**Possible**
1) There is a report of exposure and symptoms, but there is uncertainty with respect to the likelihood of exposure, the circumstances surrounding the exposure, or the consistency of the reported symptoms based upon the reported active ingredient(s). Narrative should document (as clearly as possible):
   a) Reported symptom(s) that is/are consistent with the reported active ingredient, **AND**
      i) **NOTE:** If the primary complaint or the majority of symptoms that are reported are *inconsistent* with the known toxicology of the active ingredient, the case
should be classified as ‘Unlikely.’

b) The time course between exposure, onset, and duration of symptom(s), **AND**
   i) **NOTE:** If the time course of onset and duration of symptoms is inconsistent
      with the toxicology of the active ingredient, the case should be classified as
      ‘Unlikely.’

   c) The reported exposure pathway or specialist’s interpretation of the exposure
      pathway based on the history.

**Unlikely**

1) There is a report of exposure and symptoms, but:
   a) The primary complaint or the majority of the reported symptom(s) are not
      consistent with the toxicology of the active ingredient(s), **AND/OR**
   b) The available history does not include a plausible exposure pathway, **AND/OR**
   c) The time course between exposure and onset or duration of symptoms is not
      consistent with the toxicology of the active ingredient(s).

**Unclassifiable**

1) There is a report of exposure, but the AI is unknown, the entity is asymptomatic or
   the presence/absence of symptoms are unknown.
   a) Unclassifiable – AI unknown
      Applied automatically when inquiry type = Incident-AI(s) unknown
   b) Unclassifiable – Asymptomatic
      Applied automatically when symptoms = Asymptomatic
   c) Unclassifiable – Symptoms Unknown
      Only when presence/absence of symptoms is unknown

**Unrelated**

1) Not Pesticide Related - Not coded by specialists.