### General Section – complete for all modes of transmission except water

**Primary Mode of Transmission (Check one)**
- Food (complete General, Etiology, and Food tabs)
- Water (complete CDC 52.12)
- Animal contact (complete General, Etiology, and Animal Contact tabs)
- Person-to-person (complete General, Etiology, and Settings tabs)
- Environmental contamination other than food/water (complete General, Etiology, and Settings tabs)
- Other/Unknown (complete General, Etiology, and Settings tabs)

**Investigation Methods (Check all that apply)**
- Interviews only of ill persons
- Case-control study
- Cohort study
- Food preparation review
- Water system assessment: Drinking water
- Water system assessment: Nonpotable water
- Treated or untreated recreational water venue assessment
- Investigation at facility/production/treatment plant
- Investigation at original source (e.g., farm, water source, etc.)
- Food product or bottled water traceback
- Environment/food/water sample testing
- Other

**Comments**

---

**Dates (mm/dd/yyyy)**
- Date first case became ill (required) 05/22/2016
- Date of initial exposure
- Date of report to CDC (other than this form) 07/19/2016
- Date of last case became ill 12/30/2016
- Date of last exposure

**Geographic Location**
- Exposure state: Multistate
- Exposure occurred in multiple states
- Exposure occurred in a single state, but cases resided in another state or multiple states
- Other states: Arizona, California, Colorado, Georgia, Idaho, Illinois, Michigan, Mississippi, Missouri, New Mexico, North (For multistate exposure or multistate residency outbreaks, enter the case count for each state)

**Exposure county:**
- Exposure occurred in multiple counties in exposure state
- Exposure occurred in a single county, but cases resided in another county or multiple counties
- Other counties:

**City/Town/Place of exposure:** restaurant and community

(Do not include proprietary or private facility names)

### Primary Cases

<table>
<thead>
<tr>
<th>Number of primary cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab-confirmed primary cases</td>
</tr>
<tr>
<td>Probable primary cases</td>
</tr>
<tr>
<td>Estimated total primary cases</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sex (Number or percent of the primary cases)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
</tr>
<tr>
<td>Female</td>
</tr>
<tr>
<td>Unknown</td>
</tr>
</tbody>
</table>

### Primary case outcomes

<table>
<thead>
<tr>
<th>Died</th>
<th># Cases</th>
<th>Total # of cases for whom info is available</th>
<th>Age (Number or percent of the primary cases)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>#</td>
<td>42</td>
<td>&lt;1 year</td>
</tr>
<tr>
<td>7</td>
<td>#</td>
<td>41</td>
<td>1-4 years</td>
</tr>
<tr>
<td>#</td>
<td>#</td>
<td>3.99</td>
<td>5-9 years</td>
</tr>
<tr>
<td>#</td>
<td>#</td>
<td>10-19 years</td>
<td>#</td>
</tr>
</tbody>
</table>
### General

**Incubation Period, Duration of Illness, Signs or Symptoms for Primary Cases Only**

<table>
<thead>
<tr>
<th>Incubation Period (Select appropriate units)</th>
<th>Duration of Illness (Among recovered cases-select appropriate units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shortest</td>
<td>Min, Hours, Days</td>
</tr>
<tr>
<td>Median</td>
<td>Min, Hours, Days</td>
</tr>
<tr>
<td>Longest</td>
<td>Min, Hours, Days</td>
</tr>
<tr>
<td>Total # of cases for whom info is available</td>
<td>Total # of cases for whom info is available</td>
</tr>
</tbody>
</table>

- Unknown incubation period
- Unknown duration of illness

**Signs or Symptoms** (*Refer to terms from appendix E, if appropriate, to describe other common characteristics of cases:*)

<table>
<thead>
<tr>
<th>Sign or symptom</th>
<th># cases with signs or symptoms</th>
<th>Total # cases for whom info is available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vomiting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diarrhea</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bloody stools</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fever</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abdominal cramps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Secondary Cases**

**Mode of secondary transmission (Check all that apply)**

- Food
- Water
- Animal contact
- Person-to-person
- Environmental contamination other than food/water
- Other/unknown

<table>
<thead>
<tr>
<th>Number of secondary cases</th>
<th>Lab-confirmed secondary cases</th>
<th>#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Probable secondary cases</td>
<td>#</td>
</tr>
<tr>
<td></td>
<td>Estimated total secondary cases</td>
<td>#</td>
</tr>
<tr>
<td></td>
<td>Estimated total cases (Primary + Secondary)</td>
<td>59</td>
</tr>
</tbody>
</table>

**Other CDC System IDs (If applicable)**

- NEARS ID: 1) 2) 3) 4)
- OHHABS ID: 1) 2)

**Traceback (For food and bottled water only, not public water)**

- Please check if traceback conducted

<table>
<thead>
<tr>
<th>Source name (If publicly available)</th>
<th>Source type (e.g., poultry farm, tomato processing plant, bottled water factory)</th>
<th>Location of source</th>
<th>Traceback comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>State</td>
<td>Country</td>
</tr>
</tbody>
</table>

### Recall

- Please check if any food or bottled water product was recalled
  - Type of item recalled:  
  - Comments:  

**Reporting Agency**

- Reporting site: CDC
- Agency name: CDC
- Contact name: NORS Admin
- Contact title: Epidemiologist

**E-mail:** NORSAdmin@cdc.gov
**Phone #:** 555-5555
**Fax #:** 555-5555

**General Remarks** 
Briefly describe important aspects of the outbreak not covered above. Please indicate if any adverse outcomes occurred in special populations (e.g., pregnant women, immunocompromised persons)
**Etiology Section** – complete for all modes of transmission except water

### Clinical and Environmental Testing

1. Were any samples collected and tested?  □ Yes  □ No  □ Unknown (If no or unknown, skip to Q6)

2. How many samples of each type were tested?

<table>
<thead>
<tr>
<th>Type of sample</th>
<th>Tested? (yes/no/unknown)</th>
<th>Number of samples tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human specimen</td>
<td>Yes</td>
<td>59</td>
</tr>
<tr>
<td>Animal specimen</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Food</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Other environmental (specify in general remarks)</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

3. What were they tested for? (check all that apply)
   - □ Bacteria (or bacterial toxins)
   - □ Viruses
   - □ Parasites
   - □ Chemicals/Toxins
   - □ Unknown

4. Test types (select all test types used for clinical specimens)
   - □ Chemical testing
   - □ Culture
   - □ DNA or RNA Amplification/Detection (e.g., PCR, RT-PCR)
   - □ Microscopy (e.g., Fluorescent, EM)
   - □ Serological/Immunological test (e.g., EIA, ELISA)
   - □ Tissue culture infectivity assay
   - □ Other (specify in general remarks)
   - □ Unknown

5. Was antimicrobial susceptibility testing (AST) performed?  □ Yes  □ No  □ Unknown
   - If yes, where was AST performed?  □ Clinical lab  □ Public health lab  □ CDC-NARMS  □ Other  □ Unknown
   - If yes, were any antimicrobial resistant isolates associated with the outbreak?  □ Yes  □ No  □ Unknown

6. Is there at least one confirmed* or suspected outbreak etiology(s)?
   - □ Yes  □ No (unknown etiology) If no, skip to next section

### Etiology

**Name the bacterium, chemical/toxin, virus, or parasite. If available, include the serotype and other characteristics such as phage type, virulence factors, and metabolic profile.**

<table>
<thead>
<tr>
<th>Genus</th>
<th>Species</th>
<th>Serotype/genotype</th>
<th>Other characteristics</th>
<th>Etiology confirmed or suspected</th>
<th># of lab-confirmed cases</th>
<th>Detected in*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salmonella</td>
<td>enterica</td>
<td>Enteritidis</td>
<td></td>
<td>Confirmed</td>
<td>59</td>
<td></td>
</tr>
</tbody>
</table>

*Detected in (choose all that apply): 1 – patient specimen; 2 – food specimen; 3 – environmental specimen; 4 – food-worker specimen; 5 – water sample; 6 – animal specimen

### Isolates/Strains

**For bacterial pathogens, provide a representative for each distinct pattern. For norovirus outbreaks, provide CaliciNet key, outbreak number, sequenced region, and genotype for each distinct strain.**

<table>
<thead>
<tr>
<th>CDC system</th>
<th>State lab ID/Accession ID/CaliciNet key/ PulseNet Key</th>
<th>CDC PulseNet cluster code or CaliciNet outbreak number</th>
<th>CDC PulseNet pattern designation for enzyme 1</th>
<th>CDC PulseNet pattern designation for enzyme 2</th>
<th>CaliciNet sequenced region/whole genome sequencing ID</th>
<th>CaliciNet genotype/other molecular designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>PulseNet</td>
<td>MI_CL16-175634</td>
<td>1607MLJEG-2</td>
<td>JEGX01.0080</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Settings Section – complete for person-to-person, environmental contamination, and other/unknown primary mode of transmission

#### Major Setting of Exposure (choose one)

- [ ] Camp
- [ ] Child day care
- [ ] Event space
- [ ] Festival/fair
- [ ] Hospital
- [ ] Hotel/motel
- [ ] Office/indoor workplace
- [ ] Other healthcare facility
- [ ] Private home/residence
- [ ] Religious facility
- [ ] Other (specify)
- [ ] Prison/jail
- [ ] Shelter/group home/transitional housing
- [ ] Restaurant
- [ ] School/college/university
- [ ] Unknown

Specify setting

### Attack Rates for Major Setting of Exposure

<table>
<thead>
<tr>
<th>Group (based on setting)</th>
<th>Estimated exposed in major setting*</th>
<th>Estimated ill in major setting</th>
<th>Crude attack rate [(estimated ill / estimated exposed) x 100]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residents, guests, passengers, patients, etc.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Staff, crew, etc.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*e.g., number of persons on ship, number of residents in nursing home or affected ward

#### Other Settings of Exposure (choose all that apply)

- [ ] Camp
- [ ] Child day care
- [ ] Event space
- [ ] Festival/fair
- [ ] Hospital
- [ ] Hotel/motel
- [ ] Office/indoor workplace
- [ ] Other healthcare facility
- [ ] Private home/residence
- [ ] Religious facility
- [ ] Other (specify)
- [ ] Prison/jail
- [ ] Shelter/group home/transitional housing
- [ ] Restaurant
- [ ] School/college/university
- [ ] Unknown

Specify setting

### Additional Shigella Questions (Complete this section for Shigella outbreaks)

1. Did any case-patients report travel prior to illness onset?  
   - [ ] Yes  
   - [ ] No  
   - [ ] Unknown  
   
   If yes, was travel international, domestic, or both?  
   - [ ] International  
   - [ ] Domestic  
   - [ ] Both  
   - [ ] Unknown

2. Were any confirmed, suspected, or probable case-patients immunocompromised (e.g., HIV/AIDS)?  
   - [ ] Yes  
   - [ ] No  
   - [ ] Unknown

3. Were there any confirmed, suspected, or probable cases among men who have sex with men?  
   - [ ] Yes  
   - [ ] No  
   - [ ] Unknown

### Animal Contact Section – complete for animal contact primary mode of transmission

- [ ] Animal vehicle undetermined

#### Animal

<table>
<thead>
<tr>
<th>Animal Type (select from list in appendix E)</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Type (specify)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Confirmed or suspected vehicle

<table>
<thead>
<tr>
<th>Reason(s) confirmed or suspected (enter from list in appendix E)</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
</table>

#### 1. Settings of exposure (check all that apply)

- [ ] Agricultural feed store
- [ ] Animal shelter or sanctuary
- [ ] Camp
- [ ] Child day care
- [ ] Farm/dairy
- [ ] Festival or fair
- [ ] Hospital
- [ ] Laboratory
- [ ] Live animal market
- [ ] Long-term care/nursing home/assisted living facility
- [ ] Pet store or other retail location
- [ ] Petting zoo
- [ ] Private home/residence
- [ ] School/college/university
- [ ] Veterinary clinic
- [ ] Zoo or animal exhibit
- [ ] Other (specify*)
- [ ] Unknown

#### 2. Was pet food or animal feed implicated as a potential source of the outbreak?  
   - [ ] Yes  
   - [ ] No  
   - [ ] Unknown  
   
   If yes, please specify:
   - [ ] Prepackaged pet food
   - [ ] Pet treats or chews
   - [ ] Homemade pet food
   - [ ] Commercially prepared 'raw' pet food
   - [ ] Frozen or fresh feeder rodents
   - [ ] Blended feed
   - [ ] Other (specify*)
   - [ ] Unknown

#### 3. Did any cases have exposure to livestock or household pets that were experiencing diarrhea?  
   - [ ] Yes  
   - [ ] No  
   - [ ] Unknown

#### 4. Was the “Compendium of Measures to Prevent Disease Associated with Animals in Public Settings” used in the investigation?  
   - [ ] Yes  
   - [ ] No  
   - [ ] Unknown

#### 5. What prevention measures or recommendations were used to stop the outbreak and prevent additional infections? (check all that apply)

- [ ] Handwashing
- [ ] Quarantine/stop movement
- [ ] Venue or event closure
- [ ] Removal of animals from setting

#### Animal contact remarks (*If "Other" was chosen, specify here):
**Food Section – complete for foodborne primary mode of transmission**

- **Food vehicle undetermined**
  - Reason(s) foodborne, but undetermined vehicle (enter all that apply from list in appendix E):

<table>
<thead>
<tr>
<th>Food</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of food (excluding any preparation)</td>
<td>avocado, unspecified</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Confirmed or suspected vehicle</td>
<td>Suspected</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reason(s) confirmed or suspected (enter all that apply from list in appendix E)</td>
<td>1 - Epidemiologic;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ingredient(s) (enter all that apply)</td>
<td>avocado;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contaminated ingredient(s) (enter all that apply)</td>
<td>avocado;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total # of cases exposed to implicated food</td>
<td>13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Method of processing (enter all that apply from list in appendix E)</td>
<td>11 - Unknown;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Method of preparation (select one from list in appendix E)</td>
<td>3 - Ready to eat food - Manual preparation, No cook step;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Level of preparation (select one from list in appendix E)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contaminated food imported to US?</td>
<td>Yes, country</td>
<td>Yes, country</td>
<td>Yes, country</td>
</tr>
<tr>
<td></td>
<td>Yes, unknown</td>
<td>Yes, unknown</td>
<td>Yes, unknown</td>
</tr>
<tr>
<td></td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
</tr>
<tr>
<td>Was product both produced under domestic regulatory oversight and sold?</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Unknown</td>
<td>Unknown</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

**Location where food was prepared** (check all that apply)

- Banquet facility (food prepared and served on-site)
- Camp
- Caterer (food prepared off-site from where served)
- Child day care
- Fair, festival, other temporary or mobile services
- Farm/dairy
- Grocery store
- Hospital
- Hotel/motel
- Long-term care/nursing home/assisted living facility
- Office/indoor workplace
- Other (specify in 'where prepared remarks')

**Location of exposure (where food was eaten)** (check all that apply)

- Banquet facility (food prepared and served on-site)
- Other healthcare facility
- Prison/jail
- Private home/residence
- Religious facility
- Restaurant - Buffet
- Restaurant - 'Fast-food' (drive up service or pay at counter)
- Restaurant - Other or unknown type
- Restaurant - Sit-down dining
- School/college/university
- Ship/boat
- Office/indoor workplace
- Other (specify in 'where eaten remarks')

**Was there a kitchen manager certified in food safety at the location of preparation?**

- Yes
- No
- Unknown
### Contributing Factors
(check all that contributed to this outbreak)

- Contributing factors unknown

#### Contamination factor
- C1  C2  C3  C4  C5  C6  C7  C8  C9  C10  C11  C12  C13  C14  C15  C-N/A

#### Proliferation/amplification factor (bacterial outbreaks only)
- P1  P2  P3  P4  P5  P6  P7  P8  P9  P10  P11  P12  P-N/A

#### Survival factor
- S1  S2  S3  S4  S5  S-N/A

### Confirmed or Suspected Point of Contamination
(check one)
- Before preparation
- Preparation
- Unknown
- If ‘before preparation’:
  - Pre-Harvest
  - Processing
  - Unknown

### Reason suspected
(check all that apply)
- Environmental evidence
- Laboratory evidence
- Epidemiologic evidence
- Prior experience makes this a likely source

### Was food-worker implicated as the source of contamination?
- Yes  No  Unknown

### School Questions
(Complete this section only if "school" is checked in either sections "Location where food was prepared" or "Location of exposure (where food was eaten")

1. Did the outbreak involve a single or multiple schools?
- Single
- Multiple (number of schools: ___)

2. School characteristics (for all involved students in all involved schools)
   - a. Total approximate enrollment: (number of students)
   - b. Grade level(s)
     - Grade school (grades K-12)
       - Please check all grades affected:
         - K
         - 1st
         - 2nd
         - 3rd
         - 4th
         - 5th
         - 6th
         - 7th
         - 8th
         - 9th
         - 10th
         - 11th
         - 12th
     - College/university/technical school
     - Unknown or undetermined
   - c. Primary funding of involved schools
     - Public
     - Private
     - Unknown

3. Describe the preparation of the implicated item:
(check all that apply)
- Heat and serve (item mostly prepared or cooked off-site, reheated on-site)
- Served a-la-carte
- Serve only (preheated or served cold)
- Cooked on-site using primary ingredients
- Provided by a food service management company
- Provided by a fast-food vendor
- Provided by a pre-plate company
- Part of a club or fundraising event
- Made in the classroom
- Brought by a student/teacher/parent
- Other (specify in General Remarks)
- Unknown or undetermined

4. How many times has the state, county or local health department inspected this school cafeteria or kitchen in the 12 months before the outbreak?*
- Once
- Twice
- More than two times
- Not inspected
- Unknown or undetermined

*If multiple schools are involved, please answer for the school with the most cases.

5. Does the school have a HACCP plan in place for the school feeding program?*
- Yes
- No
- Unknown or undetermined

*If multiple schools are involved, please answer for the school with the most cases.

6. Was implicated food item provided to the school through the National School Lunch/Breakfast Program?
- Yes
- No
- Unknown or undetermined

If yes, was the implicated food item donated/purchased by:
- USDA through the Commodity Distribution Program
- The state/school authority
- Other (specify in General Remarks)
- Unknown or undetermined

*If multiple schools are involved, please answer for the school with the most cases.
### Ground Beef

1. What percentage of ill persons, for whom information is available, ate ground beef raw or undercooked? ____________%

2. Was ground beef case-ready?
   - Yes
   - No
   - Unknown
   *(Case-ready ground beef is meat that comes from a manufacturer packaged for sale that is not altered or repackaged by the retailer.)*

3. Was the beef ground or reground by the retailer?
   - Yes
   - No
   - Unknown
   *If yes, was anything added to the beef during grinding (e.g., shop trim or any product to alter the fat content)?: ________________

### Eggs

1. Were eggs *(check all that apply)*
   - in shell, unpasteurized
   - in shell, pasteurized
   - packaged liquid or dry
   - stored with inadequate refrigeration during or after sale
   - consumed raw
   - consumed undercooked
   - pooled

2. Was *Salmonella Enteritidis* found on the farm?
   - Yes
   - No
   - Unknown

   **Egg comment**
   *(e.g., eggs and patients isolates matched by phage type):__________________________*
Appendix

Case Count by States

Arizona: 3  
California: 6  
Colorado: 4  
Georgia: 2  
Idaho: 4  
Illinois: 3  
Michigan: 14  
Mississippi: 1  
Missouri: 1  
New Mexico: 2  
North Carolina: 1  
Ohio: 1  
Oklahoma: 1  
Oregon: 4  
Tennessee: 1  
Texas: 8  
Utah: 1  
Washington: 1  
West Virginia: 1

Other States

Arizona, California, Colorado, Georgia, Idaho, Illinois, Michigan, Mississippi, Missouri, New Mexico, North Carolina, Ohio, Oklahoma, Oregon, Tennessee, Texas, Utah, Washington, West Virginia