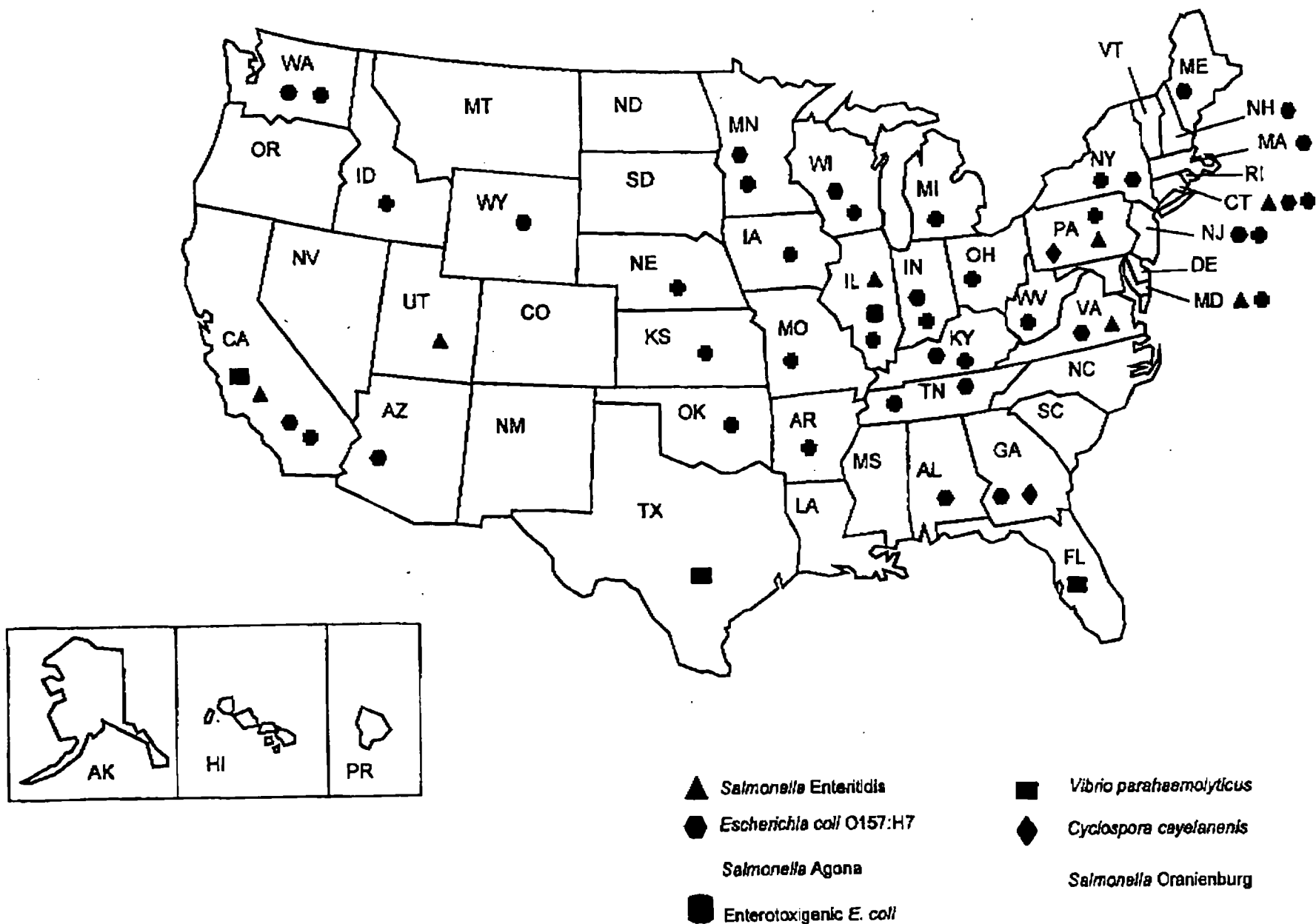


Partial Listing of Foodborne Disease Outbreaks in the United States (January-July 1998)

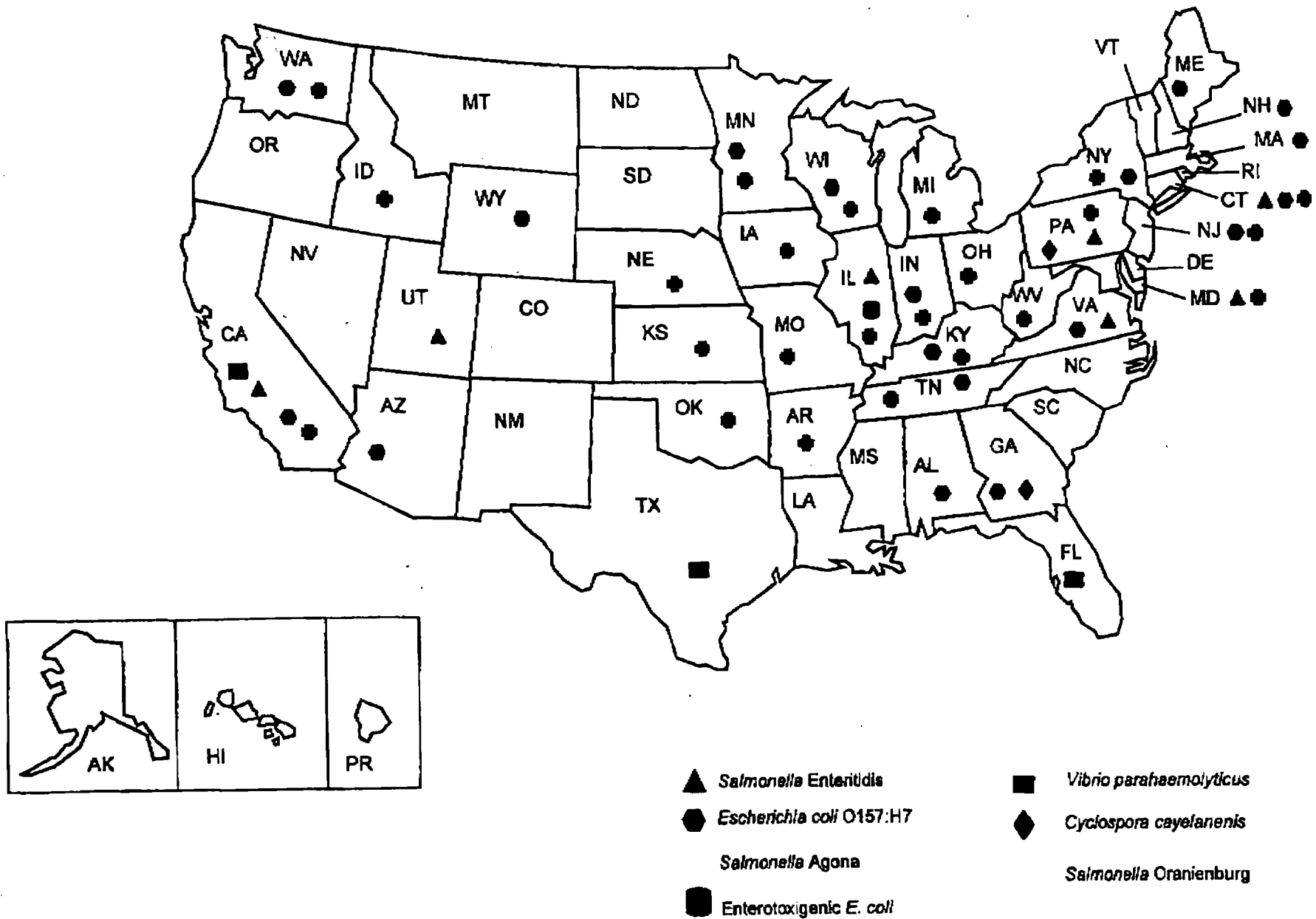


Partial Listing of Foodborne Disease Outbreaks in the United States (January-July 1998)

Microbial Agent	Dates of Onset	State(s)	Number ill/ hospitalized	Setting	Vehicle
<i>Salmonella</i> Agona	Late April - Early June	23 states	~200/-45	Commercial distribution	Toasted Oat Cereal
<i>Salmonella</i> Oranienburg	End of May	Washington (Other states?)	8/7	Grocery store purchase	Unknown/Mangoes
<i>Salmonella</i> Enteritidis	January	Maryland ✓	8	Restaurant	Eggs/Tira misu
<i>Salmonella</i> Enteritidis	January	California ✓	4/3	Restaurant	Eggs/Turkey Stuffing
<i>Salmonella</i> Enteritidis	January	California ✓	26/3	Home	Eggs/Lasagna
<i>Salmonella</i> Enteritidis	January	Pennsylvania ✓	4/2	Restaurant	Unknown
<i>Salmonella</i> Enteritidis	February	Connecticut ✓	12/1	Restaurant	??Eggs??
<i>Salmonella</i> Enteritidis	March	Virginia ✓	22	Restaurant	Eggs/Cream Pies
<i>Salmonella</i> Enteritidis	March	Utah, Illinois	2	Restaurant	Eggs/??Hollandaise Sauce??
<i>Salmonella</i> Enteritidis	March/April	Utah ✓	8	Restaurant	Eggs/??Ham Fried Rice??
<i>Salmonella</i> Enteritidis	April	Utah ✓	???	Restaurant	Unconfirmed
<i>Salmonella</i> Enteritidis	April	Utah ✓	???	Restaurant	Unconfirmed
Enterotoxigenic <i>E. coli</i>	June 7 - 7	Chicago, Illinois	~6,500	Catered events	Multiple foods
<i>Cyclospora</i> <i>cayentanensis</i>	Third week of May	Pennsylvania ✓	53/7	Parties/events	Ukn/green salad?
<i>Cyclospora</i> <i>cayentanensis</i>	Late May - Early June	Georgia ✓	Unknown	Party at local university	Unknown
<i>Vibrio</i> <i>parahaemolyticus</i>	June 15-25	TX, FL, CA ✓	316/1		Raw oysters
<i>Escherichia coli</i> O157:H7	May 1 - June 2	New York ✓	7		Unknown
<i>Escherichia coli</i> O157:H7	May 6-7	Arizona ✓	3		??ground beef???
<i>Escherichia coli</i> O157:H7	May 8 - June 1	Connecticut ✓	10		Unknown

<i>Escherichia coli</i> O157:H7	Mid-May	Indiana ✓	504??	Fast food restaurant	cabbage salad (cabbage)
<i>Escherichia coli</i> O157:H7	May 22	California ✓	2		???salad???
<i>Escherichia coli</i> O157:H7	May 25-30	New Jersey ✓	3		Unknown
<i>Escherichia coli</i> O157:H7	May 26-31	Virginia ✓	6		Unknown
<i>Escherichia coli</i> O157:H7	May 26-June 4	Massachusetts ✓	7		Unknown
<i>Escherichia coli</i> O157:H7	May 26-June 13	Massachusetts ✓	9		Unknown
<i>Escherichia coli</i> O157:H7	May 27 - June 2	New Hampshire ✓	7		Ground Beef
<i>Escherichia coli</i> O157:H7	May 27 - June 7	Maine ✓	5		Unknown
<i>Escherichia coli</i> O157:H7	June 1-3	Georgia ✓	2 (both with HUS)		Unknown
<i>Escherichia coli</i> O157:H7	June 9-15	Wisconsin ✓	47/16		cheese cards
<i>Escherichia coli</i> O157:H7	Mid June	GA, KY, TN, AZ, AL ✓	21	Water park in Georgia	Chlorinated water supply
<i>Escherichia coli</i> O157:H7	Unknown	Wisconsin, Minnesota ✓	36 (5 with HUS)		?fruit salad?
<i>Escherichia coli</i> O157:H7	June 28-29	Wyoming ✓	~50		???water???

Partial Listing of Foodborne Disease Outbreaks in the United States (January-July 1998)



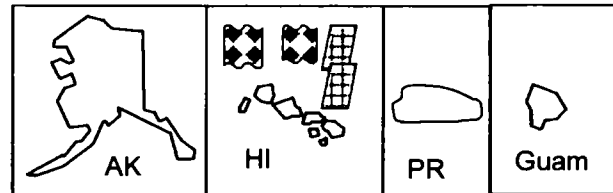
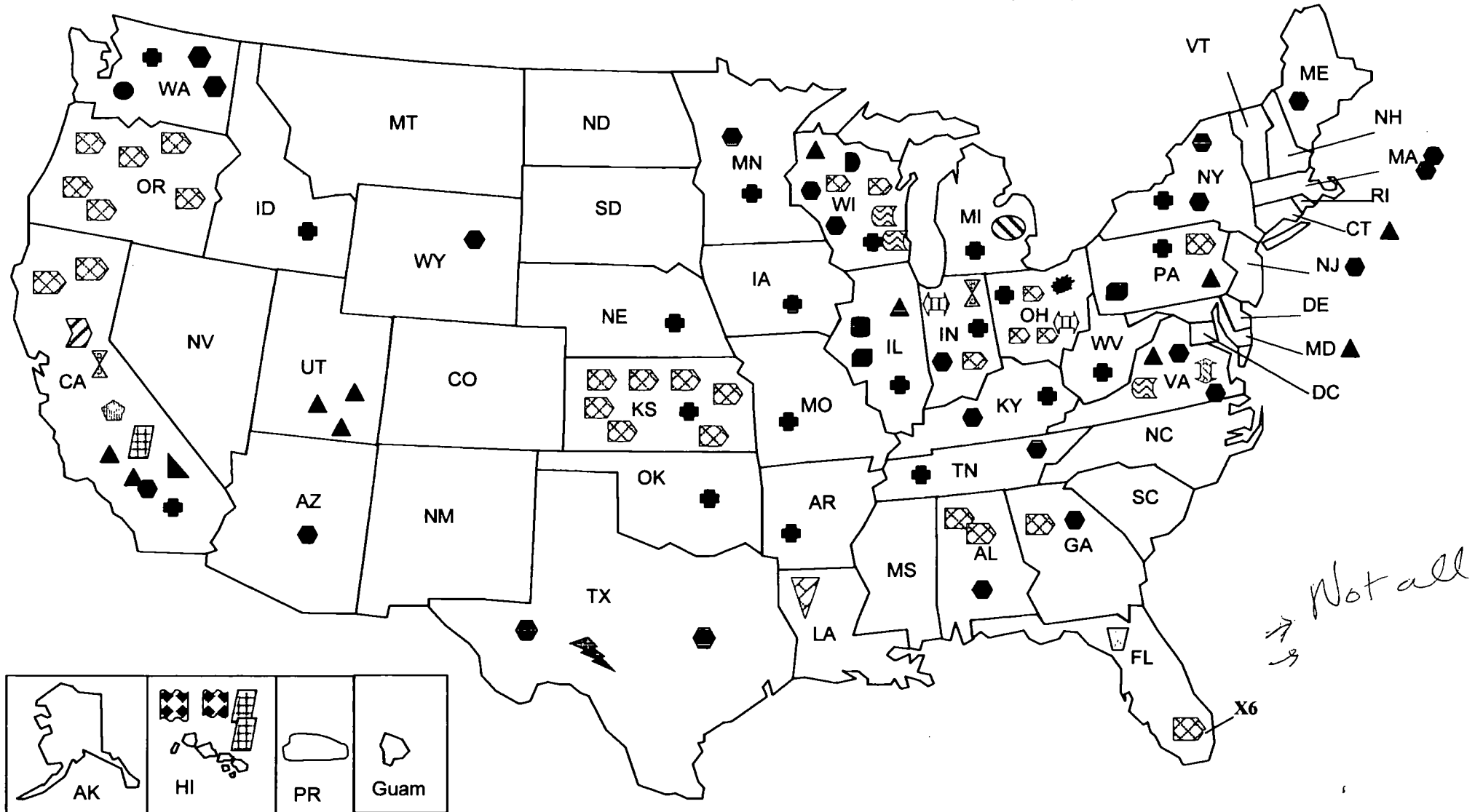
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Partial Listing of Foodborne Disease Outbreaks in the United States (January-July 1998)					
Microbial Agent	Dates of Onset	State(s)	Number ill/ hospitalized	Setting	Vehicle
<i>Salmonella Agona</i>	Late April - Early June	23 states	~200/~45	Commercial distribution	Toasted Oat Cereal
<i>Salmonella</i> <i>Oxantienburg</i>	End of May	Washington (Other ✓ states?)	8/7	Grocery store purchase	Unknown/Mangoes
<i>Salmonella</i> Enteritidis	January	Maryland ✓	8	Restaurant	Eggs/Tira misu
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Enterotoxigenic <i>E. coli</i>	June 7 - 7	Chicago, Illinois	~6,500	Catered events	Multiple foods
<i>Cyclospora cayentanensis</i>	Third week of May	Pennsylvania ✓	53/7	Parties/events	Ukn/green salad?
<i>Cyclospora cayentanensis</i>	Late May - Early June	Georgia ✓	Unknown	Party at local university	Unknown
<i>Vibrio</i> <i>parahaemolyticus</i>	June 15-25	TX, FL, CA ✓	316/1		Raw oysters
<i>Escherichia coli</i> O157:H7	May 1 - June 2	New York ✓	7		Unknown
<i>Escherichia coli</i> O157:H7	May 6-7	Arizona ✓	3		???ground beef???
<i>Escherichia coli</i> O157:H7	May 8 - June 1	Connecticut ✓	10		Unknown

<i>Escherichia coli</i> O157:H7	Mid-May	Indiana ✓	50+/?	Fast food restaurant	cabbage salad (cabbage)
<i>Escherichia coli</i> O157:H7	May 22	California ✓	2		???salad???
<i>Escherichia coli</i> O157:H7	May 25-30	New Jersey ✓	3		Unknown
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<i>Escherichia coli</i> O157:H7	May 26-June 4	Massachusetts ✓	7		Unknown
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<i>Escherichia coli</i> O157:H7	May 27 - June 7	Maine ✓	5		Unknown
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Examples of Foodborne Disease Outbreaks in the United States (January-July 1998)

Source: Centers for Disease Control and Prevention (CDC)



Campylobacter

Ciguatera

Clostridium perfringens

Escherichia coli O157:H7

Escherichia coli O157:NM

Escherichia coli O6:H16

Norwalk (Calicivirus)

Salmonella Agona*

Salmonella Enteritidis

Salmonella Havana

Salmonella Heidelberg

Salmonella Montevideo

Salmonella Oranienburg

Salmonella Senftenberg

Salmonella Typhimurium

Scombrototoxin

Shigella flexneri

Shigella sonnei

Small Round Structured Virus

Staphylococcus aureus

Unknown

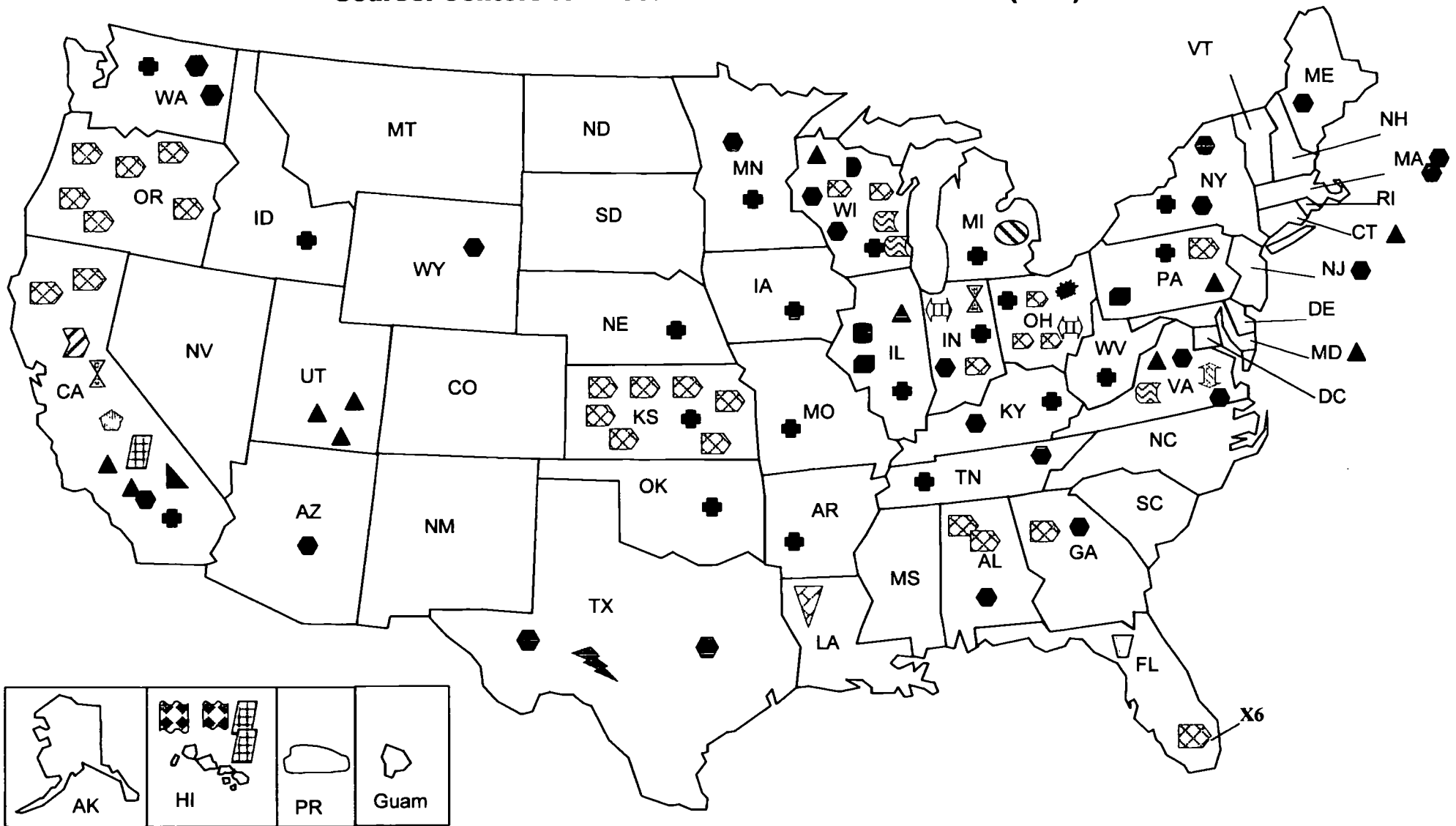
*Vibrio parahaemolyticus**

Yersinia enterocolitica

* Multiple state outbreaks

Example of Foodborne Disease Outbreaks in the United States (January-July 1998)

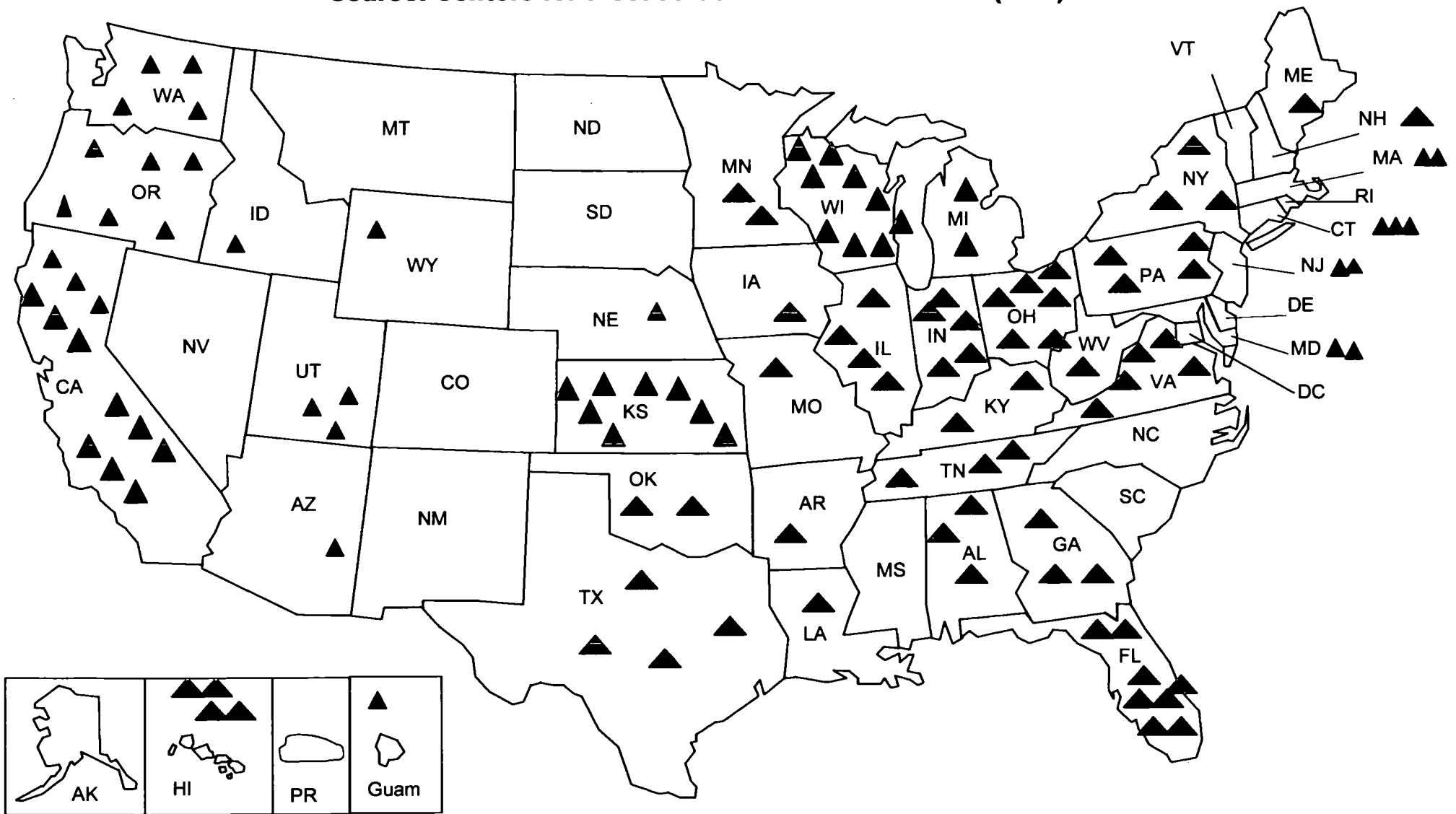
Source: Centers for Disease Control and Prevention (CDC)



- | | | | | | | | | | |
|---|---------------------------------|---|--------------------------------|---|-------------------------------|---|------------------------------|---|----------------------------------|
|  | <i>Campylobacter</i> |  | <i>Escherichia coli</i> O6:H16 |  | <i>Salmonella</i> Heidelberg |  | <i>Scombrototoxin</i> |  | <i>Staphylococcus aureus</i> |
|  | <i>Ciguatoxin</i> |  | <i>Norwalk</i> (Calicivirus) |  | <i>Salmonella</i> Montevideo |  | <i>Shigella flexneri</i> |  | Unknown |
| | <i>Clostridium perfringens</i> | | <i>Salmonella</i> Agona* | | <i>Salmonella</i> Oranienburg |  | <i>Shigella sonnei</i> | | <i>Vibrio parahaemolyticus</i> * |
| | <i>Escherichia coli</i> O157:H7 |  | <i>Salmonella</i> Enteritidis |  | <i>Salmonella</i> Senftenberg |  | Small Round Structured Virus |  | <i>Yersinia enterocolitica</i> |
|  | <i>Escherichia coli</i> O157:NM |  | <i>Salmonella</i> Havana |  | <i>Salmonella</i> Typhimurium | | | | * Multiple state outbreaks |

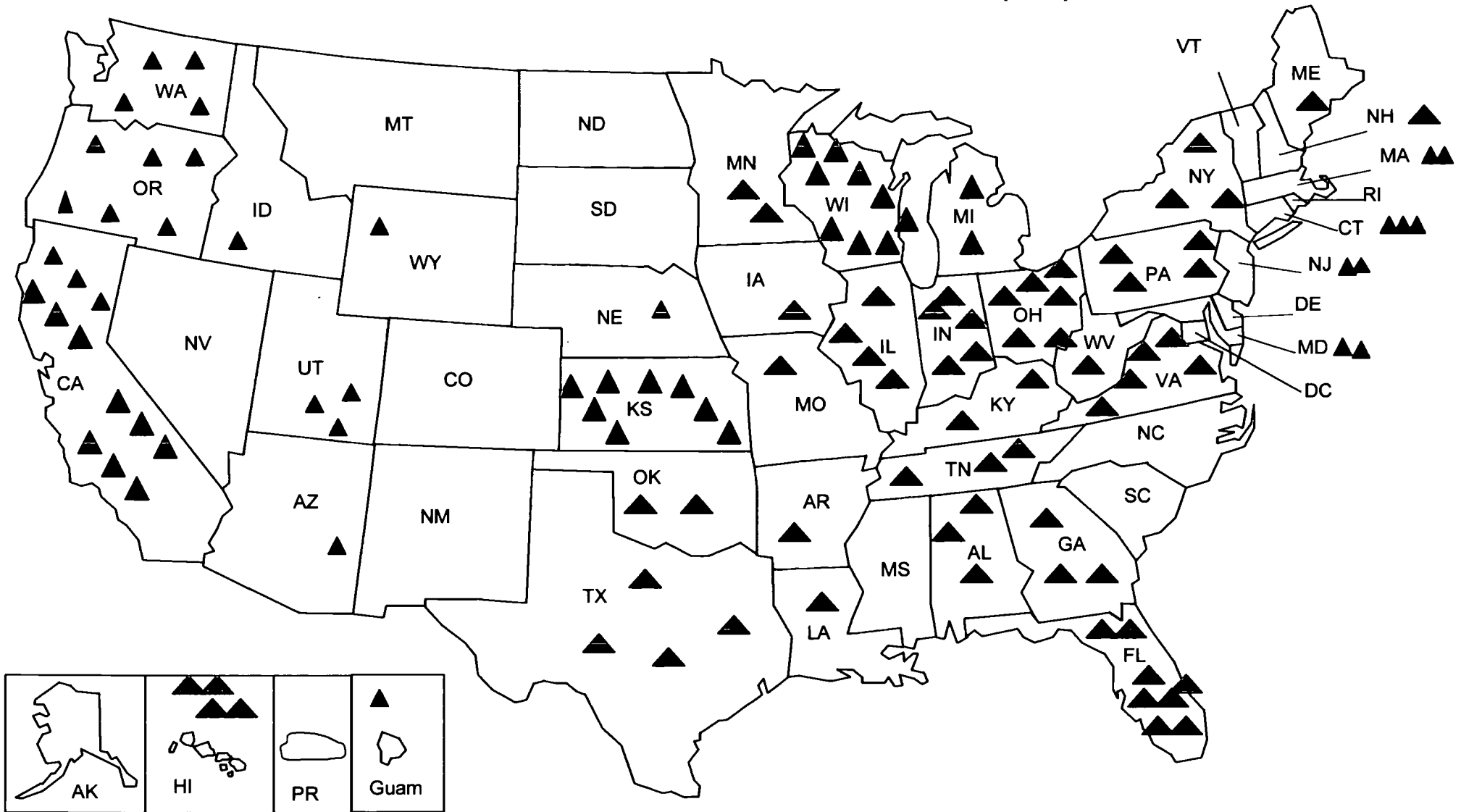
Foodborne Disease Outbreaks in the United States (January-July 1998)

Source: Centers for Disease Control and Prevention (CDC)



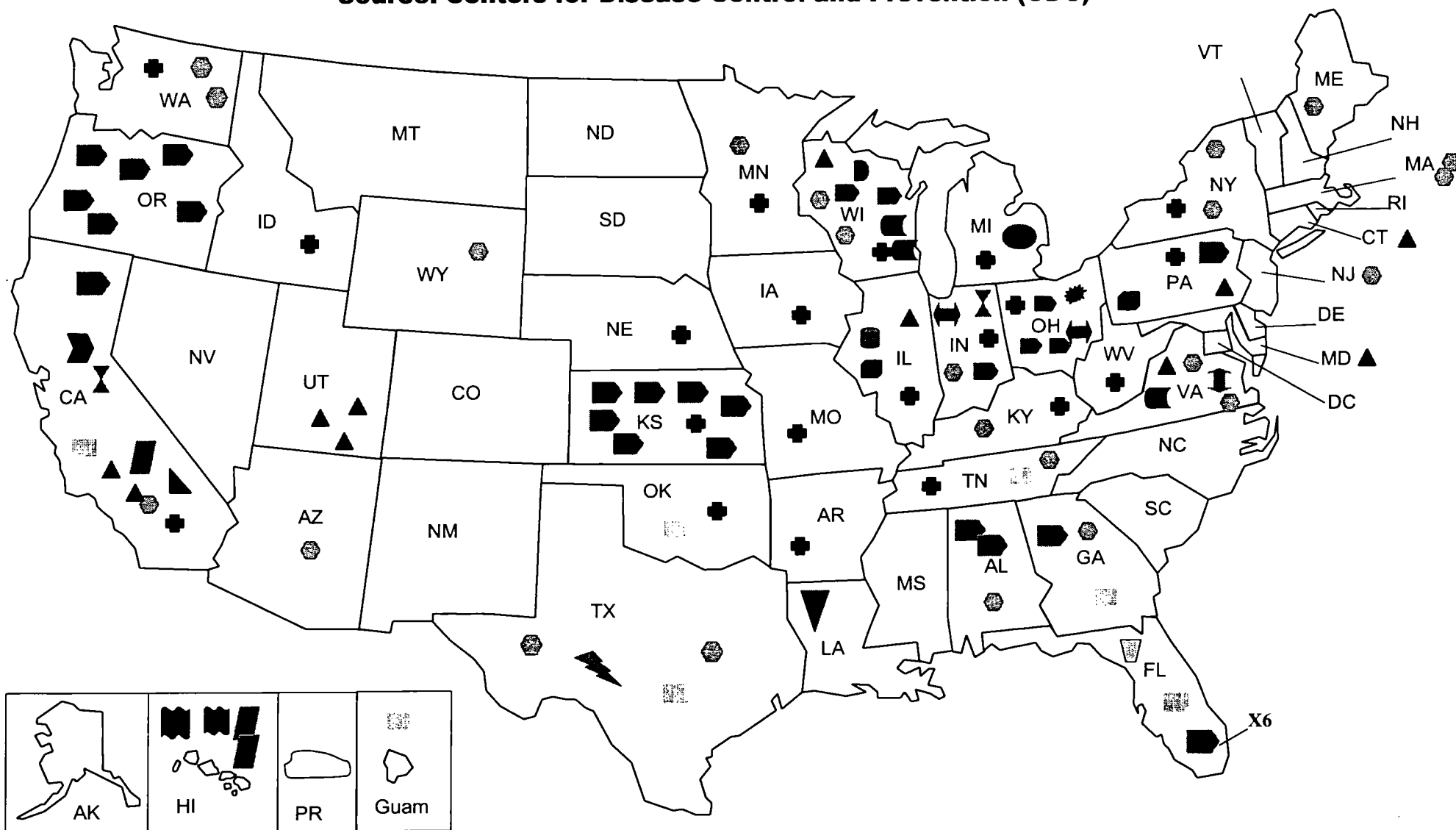
Foodborne Disease Outbreaks in the United States (January-July 1998)

Source: Centers for Disease Control and Prevention (CDC)



Examples of Foodborne Disease Outbreaks in the United State (January-July 1998)

Source: Centers for Disease Control and Prevention (CDC)



Campylobacter

Ciguatoxin

Clostridium perfringens

Escherichia coli O157:H7

Escherichia coli O157:NM

Escherichia coli O6:H16

Norwalk (Calicivirus)

Salmonella Agona*

Salmonella Enteritidis

Salmonella Havana

Salmonella Heidelberg

Salmonella Montevideo

Salmonella Oranienburg

Salmonella Senftenberg

Salmonella Typhimurium

Scombrototoxin

Shigella flexneri

Shigella sonnei

Small Round Structured Virus

Staphylococcus aureus

Unknown

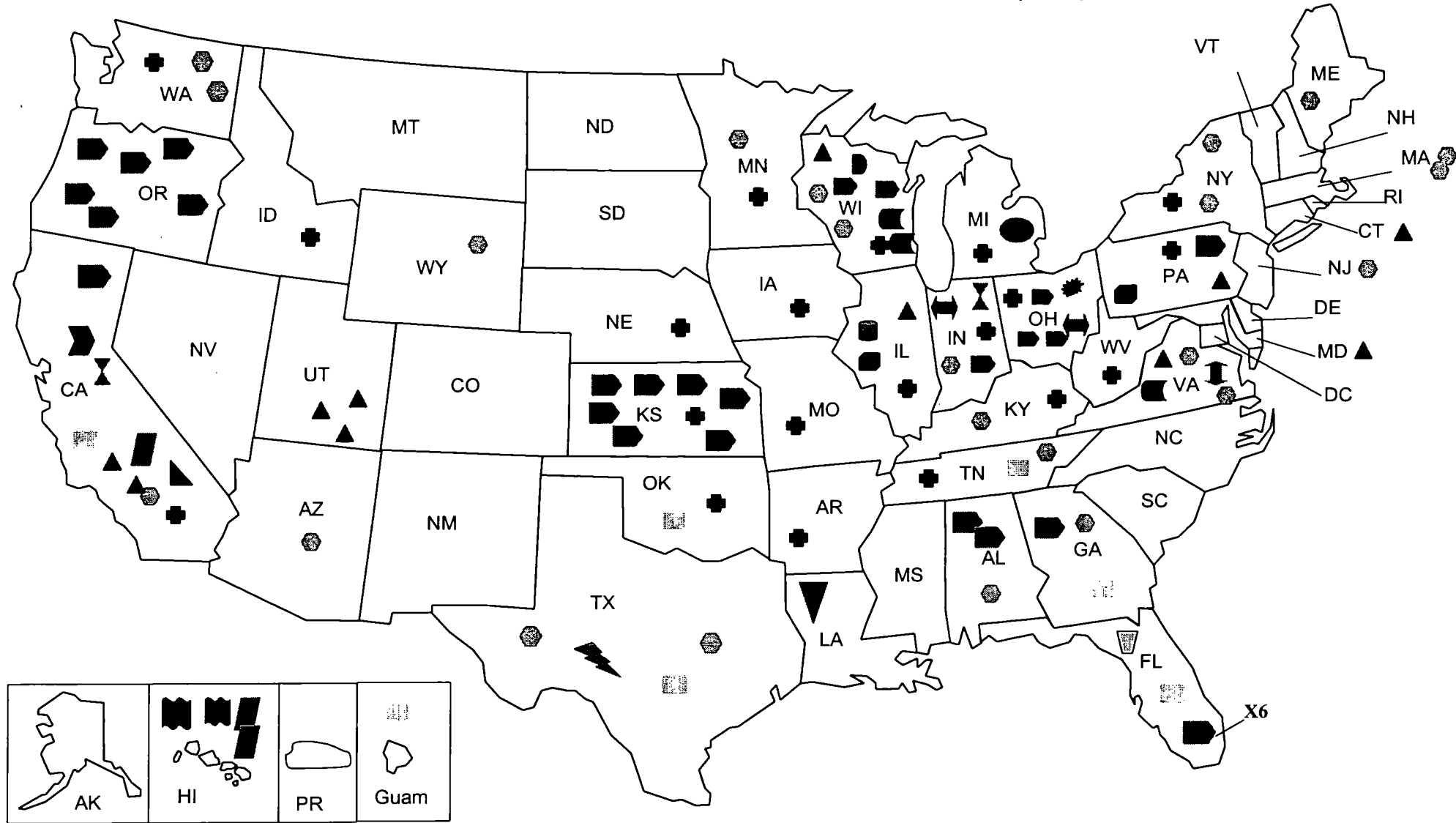
Vibrio parahaemolyticus *

Yersinia enterocolitica

* Multiple state outbreaks

Examples of Foodborne Disease Outbreaks in the United States (January-July 1998)

Source: Centers for Disease Control and Prevention (CDC)

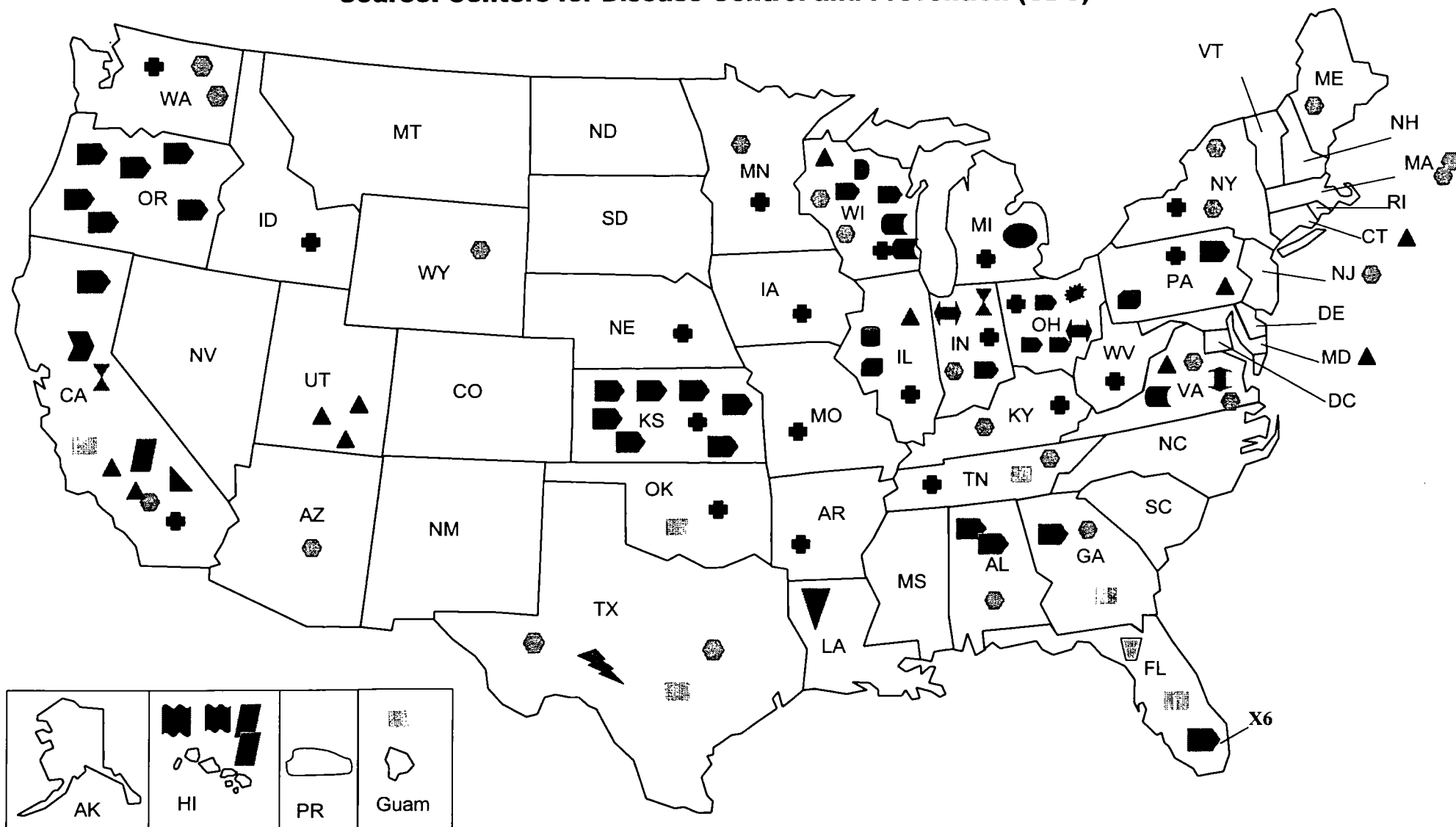


- | | | | | |
|---------------------------------|--------------------------------|-------------------------------|------------------------------|----------------------------------|
| <i>Campylobacter</i> | <i>Escherichia coli</i> O6:H16 | <i>Salmonella</i> Heidelberg | Scombrototoxin | <i>Staphylococcus aureus</i> |
| Ciguatera | Norwalk (Calicivirus) | <i>Salmonella</i> Montevideo | <i>Shigella flexneri</i> | Unknown |
| <i>Clostridium perfringens</i> | <i>Salmonella</i> Agona* | <i>Salmonella</i> Oranienburg | <i>Shigella sonnei</i> | <i>Vibrio parahaemolyticus</i> * |
| <i>Escherichia coli</i> O157:H7 | <i>Salmonella</i> Enteritidis | <i>Salmonella</i> Senftenberg | Small Round Structured Virus | <i>Yersinia enterocolitica</i> |
| <i>Escherichia coli</i> O157:NM | <i>Salmonella</i> Havana | <i>Salmonella</i> Typhimurium | | |

* Multiple state outbreaks

Examples of Foodborne Disease Outbreaks in the United States (January-July 1998)

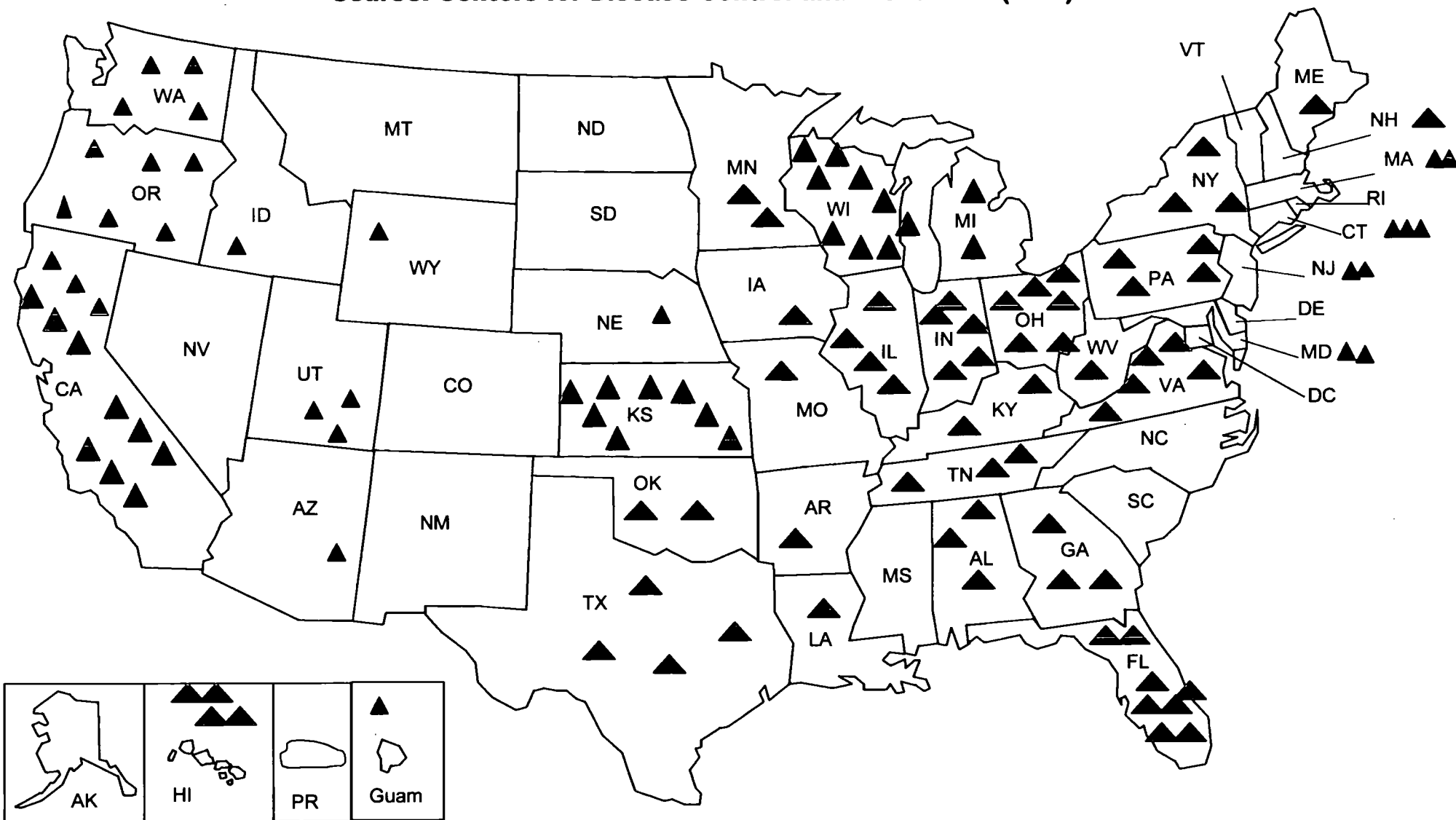
Source: Centers for Disease Control and Prevention (CDC)



* Multiple state outbreaks

Foodborne Disease Outbreaks in the United States (January-July 1998)

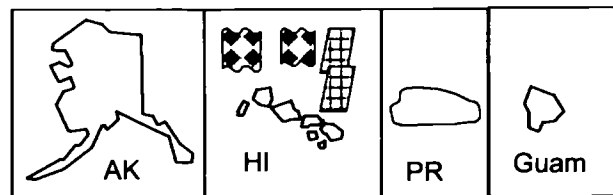
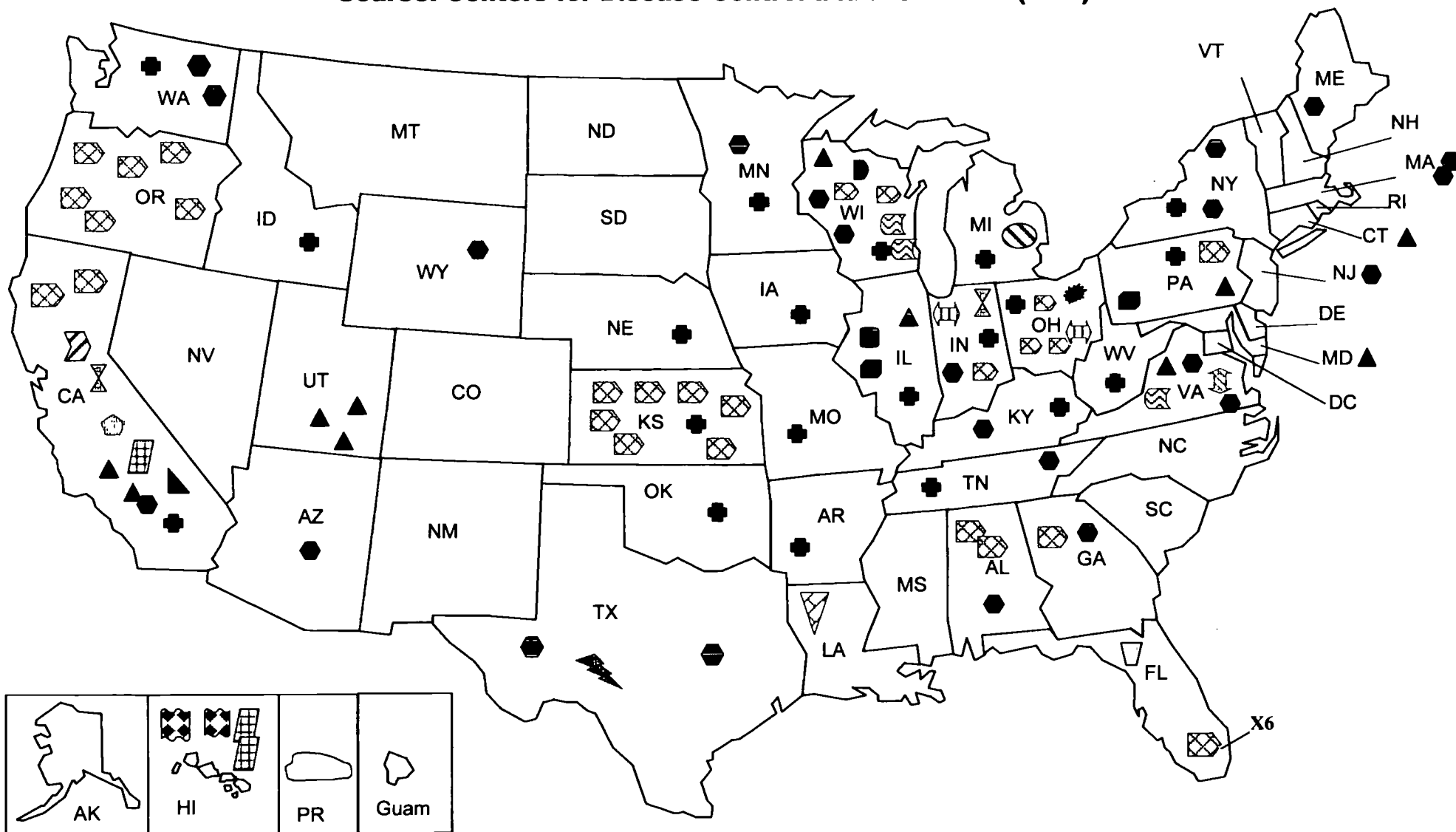
Source: Centers for Disease Control and Prevention (CDC)



720-61150

Example of Foodborne Disease Outbreak in the United States (January-July 1998)

Source: Centers for Disease Control and Prevention (CDC)



- Campylobacter**
- Ciguatera**
- Clostridium perfringens**
- Escherichia coli O157:H7**
- Escherichia coli O157:NM**
- Escherichia coli O6:H16**
- Norwalk (Calicivirus)**
- Salmonella Agona***
- Salmonella Enteritidis**
- Salmonella Havana**
- Salmonella Heidelberg**
- Salmonella Montevideo**
- Salmonella Oranienburg**
- Salmonella Senftenberg**
- Salmonella Typhimurium**
- Scombrotoxin**
- Shigella flexneri**
- Shigella sonnei**
- Small Round Structured Virus**
- Staphylococcus aureus**
- Unknown**
- Vibrio parahaemolyticus***
- Yersinia enterocolitica**

* Multiple state outbreaks

Example of Foodborne Disease Outbreaks in the United States (January-July 1998)

Source: Centers for Disease Control and Prevention (CDC)

