

Association of Food and Drug Officials

2020-2021 State Food Program Resource Survey

Due to COVID-19 impacts on inspectional programs, data provided in this survey was obtained from work performed during calendar year 2019.

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I. INTRODUCTION

The Association of Food and Drug Officials (AFDO) periodically conducts a resource survey of state human and animal food regulatory programs to collect important data that can be used to reinforce what a critical role state food safety programs play in the national regulatory scheme. This year AFDO broke the survey out into components and distributed them based on commodity or facility types, in an effort to focus more directly on each segment of the food safety regulatory system.

AFDO recognizes that 2020 was an extremely challenging year as a result of COVID-19, and that inspection related data associated with this year may not be representative of normal operations for most programs. For that reason, AFDO requested that programs provide their annualized data based on calendar year 2019 information. Data was collected from state manufactured food, retail food, grade-A milk, shellfish, meat and poultry, produce, and laboratory programs.

AFDO would like to thank all the state programs and their staff that were involved in assembling the data that was compiled for this survey.

This survey was supported by the Food and Drug Administration (FDA) of the U.S. Department of Health and Human Services (HHS) as part of a financial assistance award with 100 percent of this project funded by FDA/HHS. The contents are those of the author(s) and do not necessarily represent the official views of, nor an endorsement, by FDA/HHS, or the U.S. Government.

II. AGENCIES RESPONDING TO THE SURVEY

State	Departments of Agriculture	Departments of Health	Other Agencies
Alaska			Alaska Department of Environmental Conservation
Alabama	Alabama Department of Agriculture and Industries	Alabama Department of Public Health	
Arizona	Arizona Department of Agriculture	Arizona Department of Health Services	
Arkansas	Arkansas Department of Agriculture	Arkansas Department of Health	
California	California Department of Food and Agriculture	California Department of Public Health	
Colorado	Colorado Department of Agriculture	Colorado Department of Public Health & Environment	
Connecticut	Connecticut Department of Agriculture	Connecticut Department of Public Health	Connecticut Department of Consumer Protection Connecticut Agricultural Experiment Station
Delaware	Delaware Department of Agriculture	Delaware Department of Health and Social Services	
Florida	Florida Department of Agriculture & Consumer Services	Florida Department of Health	
Georgia	Georgia Department of Agriculture		
Hawaii	Hawaii Department of Agriculture	Hawaii Department of Health	
Idaho	Idaho Department of Agriculture	Idaho Department of Health & Welfare	
Illinois		Illinois Department of Public Health	
Indiana		Indiana Department of Health	Indiana State Chemist
Iowa	Iowa Department of Agriculture & Land Stewardship		Iowa Department of Inspections & Appeals State Hygienic Laboratory at the University of Iowa
Kansas	Kansas Department of Agriculture		
Kentucky	Kentucky Department of Agriculture	Kentucky Department of Public Health	Kentucky Division of Regulatory Services
Louisiana	Louisiana Department of Agriculture & Forestry	Louisiana Department of Health	
Maine	Maine Department of Agriculture, Conservation & Forestry	Maine Department of Health & Human Services	Maine Department of Marine Resources
Maryland	Maryland Department of Agriculture	Maryland Department of Health	
Massachusetts	Massachusetts Department of Agricultural Resources	Massachusetts Department of Public Health	
Michigan	Michigan Department of Agriculture and Rural Development		
Minnesota	Minnesota Department of Agriculture	Minnesota Department of Health	
Mississippi	Mississippi Department of Agriculture & Commerce	Mississippi State Department of Health	Mississippi State Chemical Laboratory - Office of the State Chemist Mississippi Department of Marine Resources

State	Departments of Agriculture	Departments of Health	Other Agencies
Missouri	Missouri Department of Agriculture	Missouri Department of Health & Senior Services	
Montana	Montana Department of Agriculture	Montana Department of Public Health & Human Services	Montana Department of Livestock
Nebraska	Nebraska Department of Agriculture	Nebraska Department of Health & Human Services	
Nevada	Nevada State Department of Agriculture	Nevada Department of Health & Human Services	
New Hampshire	New Hampshire Department of Agriculture Markets & Food	New Hampshire Department of Health and Human Services	
New Jersey	New Jersey Department of Agriculture	New Jersey Department of Health	
New Mexico	New Mexico Department of Agriculture	New Mexico Department of Health	New Mexico Environment Department
New York	New York Department of Agriculture & Markets	New York Department of Health	
North Carolina	North Carolina Department of Agriculture & Consumer Services	North Carolina Department of Health & Human Services	
North Dakota	North Dakota Department of Agriculture	North Dakota State Department of Health	North Dakota State Department of Environmental Quality
Ohio	Ohio Department of Agriculture	Ohio Department of Health	
Oklahoma	Oklahoma State Department of Agriculture, Food & Forestry	Oklahoma Department of Health	
Oregon	Oregon Department of Agriculture	Oregon Health Authority	
Pennsylvania	Pennsylvania Department of Agriculture	Pennsylvania Department of Health	
Rhode Island		Rhode Island Department of Health	
South Carolina	South Carolina Department of Agriculture	South Carolina Department of Health & Environmental Control	
South Dakota		South Dakota Department of Health	South Dakota State University Animal Disease Research and Diagnostic Laboratory
Tennessee	Tennessee Department of Agriculture	Tennessee Department of Health	
Texas	Texas Department of Agriculture	Texas Department of State Health Services	
Utah	Utah Department of Agriculture and Food	Utah Department of Health	
Vermont	Vermont Agency of Agriculture Food & Markets	Vermont Department of Health	
Virginia	Virginia Department of Agriculture and Consumer Services	Virginia Department of Health	Virginia Department of General Services
Washington	Washington Department of Agriculture	Washington State Department of Health	
West Virginia	West Virginia Department of Agriculture	West Virginia Department of Health & Human Resources	
Wisconsin	Wisconsin Department of Agriculture, Trade & Consumer Protection	Wisconsin Department of Health Services	
Wyoming	Wyoming Department of Agriculture		

III. SUMMARY OF KEY DATA

Total Number of State Inspections Conducted in 2019

Establishment Type	Total Number of State Inspections
Manufactured Food	45,995
Retail Food	968,195
Grade A Milk & Manufacturing Milk	112,522
Shellfish	4,885
Meat & Poultry	129,950
Produce	1,121
Total	1,262,668

Total Number of Complaint Investigations Conducted by the States in 2019

Establishment Type	Total Number of State Complaint Investigations
Manufactured Food	3,053
Retail Food	26,812
Grade A Milk & Manufacturing Milk	140
Shellfish	303
Meat & Poultry	650
Produce	7
Total	30,965

Total Number of Enforcement Actions Initiated by States in 2019

Establishment Type	Total Number of State Enforcement Actions
Manufactured Food	11,570
Retail Food	22,098
Grade A Milk & Manufacturing Milk	1,184
Shellfish	829
Meat & Poultry	2,037
Produce	13
Total	37,731

Total Monetary Penalties Issued by States in 2019

Establishment Type	Total State Issued Monetary Penalties
Manufactured Food	\$3,802,434
Retail Food	\$4,724,926
Grade A Milk & Manufacturing Milk	\$119,400
Shellfish	\$23,725
Meat & Poultry	\$99,103
Produce	0
Total	\$8,769,588

Total State Embargoes and Quarantines Levied in 2019

Establishment Type	Total Pounds of Food Embargoed and Quarantined	Total Value of Food Embargoed and Quarantined
Manufactured Food	197,981	\$26,271,990
Retail Food	241,930	\$4,876,930
Grade A Milk & Manufacturing Milk	1,097,767	\$39,805
Shellfish	12,631	\$78,162
Meat & Poultry	54,508	\$115,831
Produce	0	0
Total	1,604,817	\$31,383,272

Total Condemnations and Destructions of Food Overseen by States in 2019

Establishment Type	Total Pounds of Food Condemned and Destroyed	Total Value of Food Condemned and Destroyed
Manufactured Food	468,249	\$10,741,494
Retail Food	83,937	\$5,310,177
Grade A Milk & Manufacturing Milk	1,743,404	\$234,396
Shellfish	10,523	\$17,271
Meat & Poultry	373,692	\$1,001,065
Produce	0	0
Total	2,679,805	\$17,304,403

Total Number of State Laboratory Analyses Conducted in 2019

Analysis Type	Total Analyses
Human Food Microbiology Analyses	171,577
Human Food Chemistry Analyses	83,413
Animal Food Microbiology Analyses	5,792
Animal Food Chemistry Analyses	80,433
Whole Genome Sequencing	14,557
Total	355,772

IV. MANUFACTURED FOOD

A. General Questions

How are manufactured food facilities regulated in the state?		
State is responsible for licensing and inspecting all facilities	66%	
State licenses and inspects facilities except where local jurisdictions	7%	
are delegated authority / have their own program		
State licenses facilities but inspections are completed by local agencies	2%	
Responsibility for licensing and inspections is shared between two or	16%	
more state agencies		
All facilities are licensed and inspected by local agencies	0%	
Other	9%	
Total Number of Responses: 44		

Who oversees cottage food or home based food operations within the state?		
State Department of Agriculture	32%	
State Department of Health	29%	
Local Agencies	16%	
Cottage food is not permitted within the state	9%	
Other	14%	
Total Number of Responses: 44		

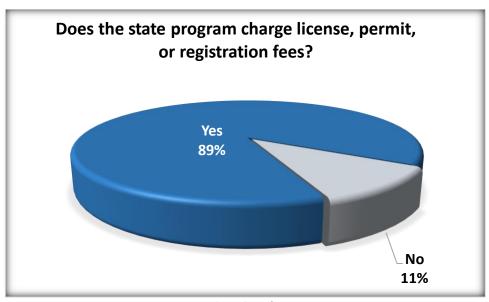


Figure 1. Total Number of Responses: 44

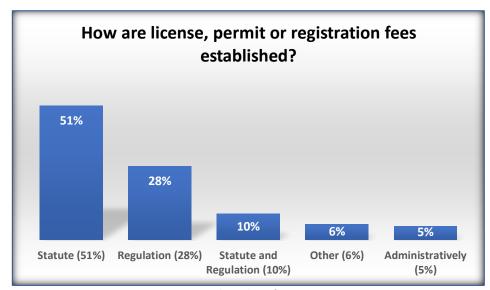


Figure 2. Total Number of Responses: 39

What factors are license, permit, or registration fees based on? (Selected all that applied)		
Risk	21%	
Facility type or products processed	49%	
Facility square footage	28%	
Facility revenue	28%	
Number of employees	10%	
Other	18%	
Total Number of Responses: 39 (Responders may have selected more than one factor)		

Are inspection frequencies established based on risk?	
Yes	86%
No	14%
Total Number of Responses: 44	

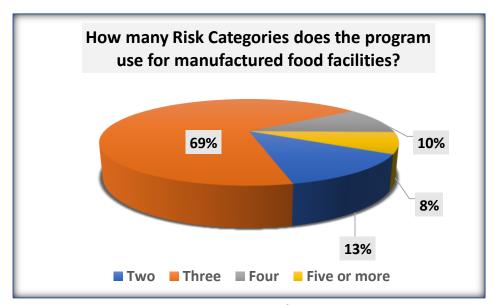


Figure 3. Total number of responses: 39

State program has responsibility for inspecting facilities processing or handling the following products intended for human consumption (Selected all that applied)	
Hemp	49%
CBD	40%
Marijuana	14%
Medical Marijuana	26%
Cannabis Extraction	19%
None	37%
Total Number of Responses: 43 (Responders may have selected more than one category type)	

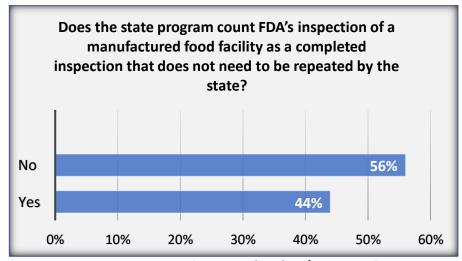


Figure 4. Total number of responses: 43

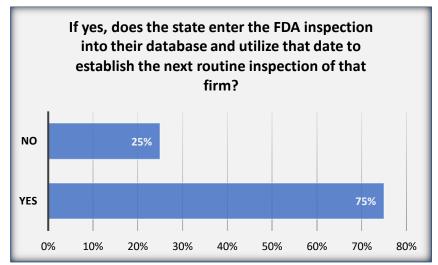


Figure 5. Total number of responses: 20

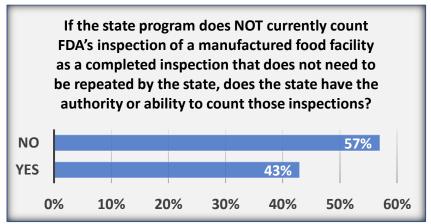


Figure 6. Total number of responses: 23

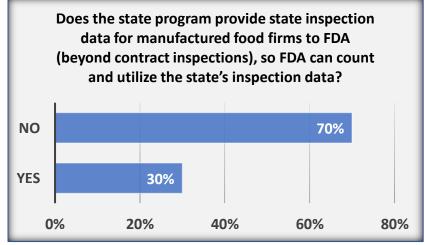


Figure 7. Total number of responses: 44



Figure 8. Total number of responses: 44

If yes, what types of training does your state program offer?		
47%		
65%		
47%		
35%		
41%		
47%		
0%		

Total Number of Responses: 17 (Responders may have selected more than one training program type)

B. State Inventories and Inspections

Establishment Type	Total Number Licensed or Permitted Facilities	Total Number of State Inspections in 2019
Food Processor	69,069*	29,108*
Food Warehouse	28,294*	9,605
Food Salvage	411	199
Cottage Food/Home Based Food Ops.	17,694*	2,213
Food Transportation Vehicles	2	0
Dietary Supplement Manufacturer	404*	340
Bottled Water	1,613*	199
Water Vending	2,327	197
Ice Vending	595	50
FDA Contract Inspections	2,115*	4,084*
TOTAL	122,524*	45,995*
Total Number of Responses varies by establishment type. *Includes 1,426 facilities and 643 inspections under local jurisdictions in 3 states		

C. Complaints, Recalls, Tracebacks, and Traceforwards

Total non-foodborne illness related consumer complaints received & investigated in 2019:	
Total Number of Consumer Complaints Received	3,835
Total Number of Consumer Complaints Investigated	3,053
Total Number of Responses: 39	

Total recall and tracing activities that were conducted during calendar year 2019:		
Tracebacks / Traceforwards related to adulterated and misbranded food	220	
Recalls overseen related to firms under the state's jurisdiction	395	
Recalls initiated as a result of investigative activities conducted by the state	306	
Number of recall effectiveness checks conducted	844	
Disaster or Emergency Responses (not related to foodborne illness)	957	
Total Number of Responses varies by activity, range is 38-41.		

D. Foodborne Disease

Agency is responsible for the following functions:	
Surveillance of foodborne disease outbreaks	49%
Epidemiological investigations of foodborne disease outbreaks	42%
Foodborne disease outbreak follow-up inspections / investigations at	77%
food establishments	
Receiving and investigating alleged foodborne disease complaints	81%
Total Number of Responses: 43 (Responders may have selected more than one function)	

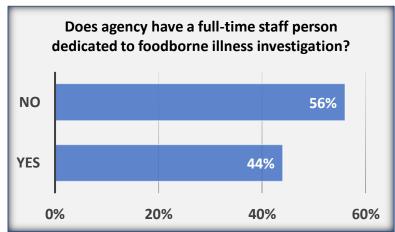


Figure 9. Total number of responses: 43

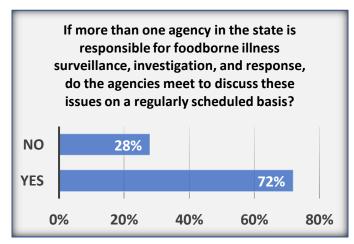


Figure 10. Total number of responses: 43

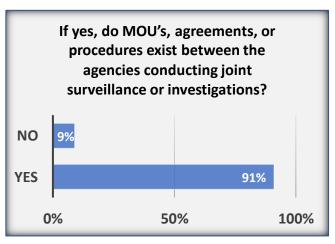


Figure 11. Total number of responses: 43

Total number of foodborne disease related activities in 2019:		
Alleged foodborne disease complaints (including ill food worker complaints) received	1,939	
<u>Confirmed</u> foodborne disease outbreak <u>epidemiological</u> investigations the agency conducted?	333	
<u>Confirmed</u> foodborne disease outbreak <u>follow-up inspections or</u> <u>investigations</u> the agency conducted	98	
Foodborne disease outbreak <u>investigations</u> the agency conducted (confirmed + unconfirmed)	631	
Foodborne disease outbreak <u>follow-up inspections or investigations</u> the agency conducted (confirmed + unconfirmed outbreaks)	120	
Total Number of Responses: Varies by activity, range is 30-37		

E. Enforcement Authorities and Actions

State Enforcement Authority	State programs reporting they have this enforcement authority	Total number of times enforcement authority was utilized during CY 2019
Embargo/Quarantine/Impound	93%	1,486
Seizure	68%	2,218
Condemnation	67%	0
Stop Sale Order	57%	44
Voluntary Destruction / Disposal	93%	483
Regulatory / Warning Letters	98%	2,290
Health Advisories	64%	5
Monetary Penalties (civil penalties)	65%	4,537
License / Permit Suspension	81%	12
License / Permit Revocation	86%	30
Hearings	90%	186
Closures	67%	17
Criminal Complaints	49%	256
Civil Complaints	51%	1
Injunctions	61%	0
Inspection Warrants	33%	5
Search Warrants	26%	0
Total Number of Responses: Varies by activity, range	is 41-44	•

Enforcement Activity in 2019	
Total Number of Monetary Penalties Issued	3,630
Total Amount of Monetary Penalties Issued	\$3,802,434
Total Number of Embargoes and Quarantines	1,476
Total Pounds of Food Embargoed and Quarantined	197,981
Total Value of Food Embargoed and Quarantined	\$26,271,990
Total Number of Condemnations or Destructions	3,496
Total Pounds of Food Condemned or Destroyed	468,249
Total Value of Food Condemned or Destroyed	\$10,741,494
Total Number of Responses: Varies by activity, range is 21-33	

F. Staffing

Program Staffing	Total Number of Full Time Equivalent Staff
Field Inspection / Investigation	519
Supervisors (Over Field Activities)	76
Compliance & Enforcement (Includes Recall Coordinators)	34
Emergency Response	24
Industry & Community Relations	10
Quality Management (includes Program Standards and Auditing)	43
Training Outreach	12
Administrative Support	68
Managers	53
Other Not Identified	3
Total State Program FTE's	842
Total Number of Responses: 44	

G. Program Funding

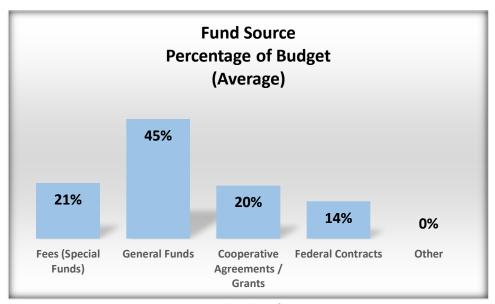


Figure 12. Total number of responses: 40

V. RETAIL FOOD

A. General Questions

How are retail food establishments regulated in the state?	
State is responsible for licensing and inspecting all food establishments	20%
State licenses and inspects establishments except where local	40%
jurisdictions are delegated authority / have their own program	
State licenses establishments but inspections are completed by local	2%
agencies	
Responsibility for licensing and inspections is shared between two or	5%
more state agencies	
All food establishments are licensed and inspected by local agencies	18%
Other	15%
Total Number of Responses: 40	

Who oversees cottage food or home based food operations within the state?	
State Department of Agriculture	43%
State Department of Health	27%
Local Agencies	10%
Cottage food is not permitted within the state	0%
Other	20%
Total Number of Responses: 40	

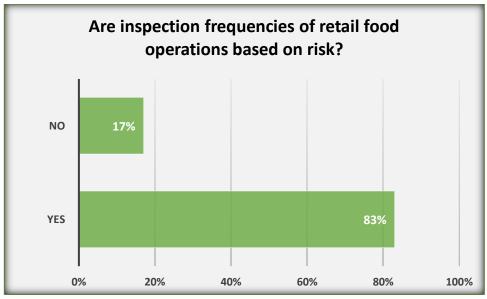


Figure 13 Total number of responses: 40

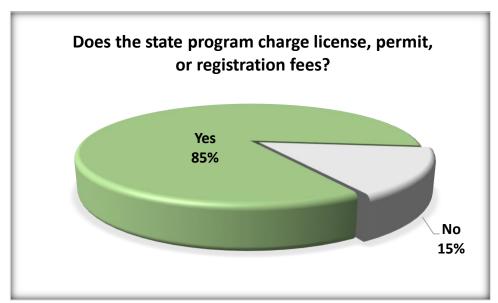


Figure 14. Total number of responses: 40

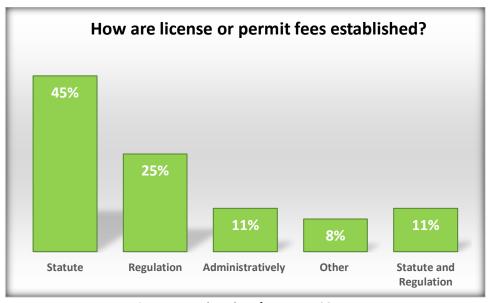


Figure 15. Total number of responses: 36

What factors are license, permit, or registration fees based on? (Selected all that applied)	
Risk	28%
Facility type	47%
Facility square footage	22%
Facility revenue	17%
Number of employees	6%
Other	31%
Total Number of Responses: 36 (Responders may have selected more than one factor)	

State program has responsibility for inspecting retail food establishments involved in processing or handling the following products (Selected all that applied)	
Hemp at retail	18%
CBD at retail	25%
Marijuana at retail	3%
Medical marijuana at retail	3%
None	70%
Total Number of Responses: 40 (Responders may have selected more than one answer)	

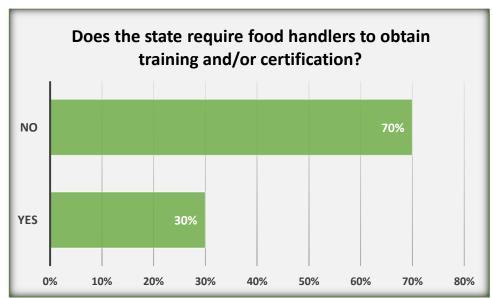


Figure 16. Total number of responses: 40

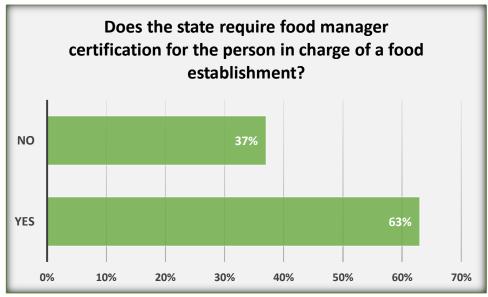


Figure 17. Total number of responses: 40

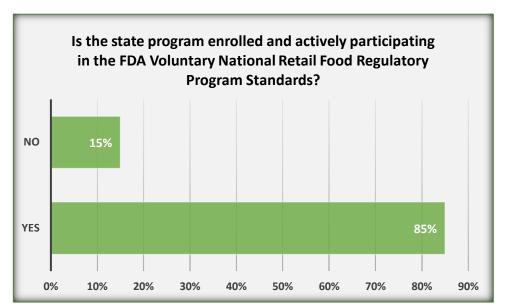


Figure 18. Total number of responses: 41

If participating in the retail program standards, which standards is the program fully conformant with (self-assessment and verification audit completed)?	
Standard 1	63%
Standard 2	20%
Standard 3	43%
Standard 4	20%
Standard 5	37%
Standard 6	20%
Standard 7	80%
Standard 8	13%
Standard 9	13%
Total Number of Responses: 30 (Responders may have selected more than one answer)	

Year last full assessment of the retail standards was completed:	
2020	9%
2019	22%
2018	19%
2017	12%
2016	16%
More than five (5) years	22%
Total Number of Responses: 32	

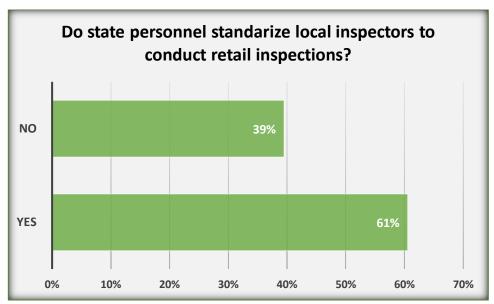


Figure 19. Total number of responses: 38

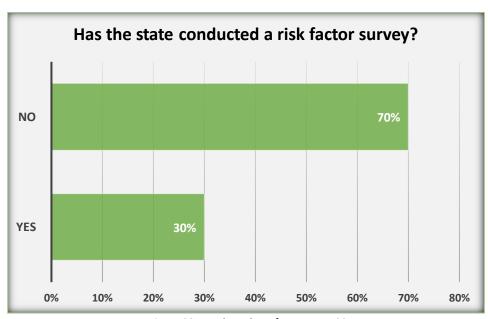


Figure 20. Total number of responses: 30

For states that have conducted a risk factor survey:	
It was conducted as an independent risk factor survey	67%
It was conducted using inspectional results as the risk factor survey	33%
Total Number of Responses: 12	

For states that have conducted a risk factor survey, did they find interventions from the survey have impacted change in the inspectional program?	
Yes	18%
No	0%
Not enough time has elapsed to determine	46%
Not sure	36%
Total Number of Responses: 11	

Does the state use the FDA risk factor survey results to modify, improve, or update program procedures?	
Yes	44%
No	56%
Total Number of Responses: 39	

B. State Inventories and Inspections

Establishment Type	Total Number Licensed or Permitted Facilities	Total Number of State Inspections in 2019
Retail Food Service	302,273*	320,014*
Temporary Food Service	53,262*	33,435*
Mobile Food Units	40,413*	42,073*
Inst. Food Service: Hospitals, Care Facilities	2,512*	1,027*
Inst. Food Service: Schools, Correctional Facilities	24,361*	441,415*
Retail Food Stores	173,094*	108,517*
Water Vending	3,802	17,914
Ice Vending	968	346
Cottage Food/Home Based Food Ops.	6,390*	1,219
Other	8,651	2,235
TOTAL	615,726*	968,195*
Total Number of Responses: Varies by Establishment type, range is 34-38 *Includes 234,177 facilities and 232,971 inspections under local jurisdictions in 14 states		

C. Complaints, Recalls, Tracebacks, and Traceforwards

Total non-foodborne illness related consumer complaints received & investigated in 2019:		
Total Number of Consumer Complaints Received	43,589	
Total Number of Consumer Complaints Investigated	26,812	
Total Number of Responses: Varies by category, Range is 32-34		
Total recall and tracing activities that were conducted during calendar year 2019:		
Number of recall effectiveness checks conducted	390	
Total Number of Responses: 31		

D. Foodborne Disease

Agency is responsible for the following functions:	
Surveillance of foodborne disease outbreaks	58%
Epidemiological investigations of foodborne disease outbreaks	44%
Foodborne disease outbreak follow-up inspections / investigations at food	78%
establishments	
Receiving and investigating alleged foodborne disease complaints	81%
Total Number of Responses: 36 (Responders may have selected more than one answer)	

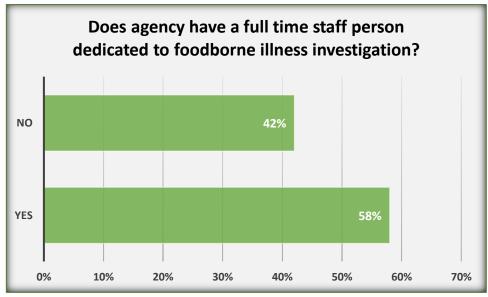


Figure 21. Total Number of Responses: 40

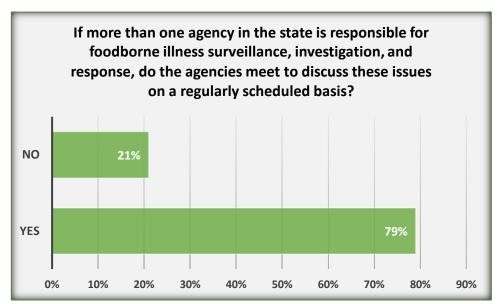


Figure 22. Total Number of Responses: 39

How often do the agencies meet to discuss foodborne illness surveillance, investigation,		
and response?		
Weekly	18%	
Bi-Weekly	7%	
Monthly	29%	
Bi-Monthly	3.5%	
Quarterly	25%	
Annually	3.5%	
As needed	14%	
Total Number of Responses: 28		

Total number of foodborne disease related activities in 2019:		
Alleged foodborne disease complaints (including ill food worker complaints)	9,521	
received	9,321	
Confirmed foodborne disease outbreak epidemiological investigations the	270	
agency conducted?	270	
<u>Confirmed</u> foodborne disease outbreak <u>follow-up inspections or</u>	202	
investigations the agency conducted	203	
Foodborne disease outbreak investigations the agency conducted	1 242	
(confirmed + unconfirmed)	1,343	
Foodborne disease outbreak follow-up inspections or investigations the	COC	
agency conducted (for confirmed + unconfirmed outbreaks)	696	
Total Number of Responses: Varies by activity, range is 24-29		

E. Enforcement Authorities and Actions

State Enforcement Authority	State programs reporting they have this enforcement authority	Total number of times enforcement authority was utilized during CY 2019
Embargo/Quarantine/Impound	84%	1,157
Seizure	50%	1
Condemnation	56%	0
Stop Sale Order	51%	83
Voluntary Destruction / Disposal	92%	7,594
Regulatory / Warning Letters	89%	7,251
Health Advisories	65%	0
Monetary Penalties (civil penalties)	74%	5,323
License / Permit Suspension	81%	49
License / Permit Revocation	86%	50
Hearings	89%	226
Closures	86%	115
Criminal Complaints	35%	191
Civil Complaints	50%	3
Injunctions	55%	50
Inspection Warrants	36%	5
Search Warrants	24%	0
Total Number of Responses: Varies by Authority/Action, range is 36-38		

Enforcement Activity in 2019		
Total Number of Monetary Penalties Issued	6,193	
Total Amount of Monetary Penalties Issued	\$4,724,926	
Total Number of Embargoes and Quarantines	3,358	
Total Pounds of Food Embargoed and Quarantined	241,930	
Total Value of Food Embargoed and Quarantined	\$4,876,930	
Total Number of Condemnations or Destructions	7,602	
Total Pounds of Food Condemned or Destroyed	83,937	
Total Value of Food Condemned or Destroyed	\$5,310,177	
Total Number of Responses: Varies by activity, range is 13-25		

F. Staffing

Program Staffing	Total Number of Full Time Equivalent Staff	
Field Inspection / Investigation	2,738*	
Supervisors (Over Field Activities)	176	
Compliance & Enforcement (Includes Recall Coordinators)	14	
Emergency Response	14	
Industry & Community Relations	9	
Quality Management (includes Program Standards and Auditing)	13	
Training	13	
Administrative Support	52	
Managers	25	
Other	4	
Total State Program FTE's	3,320	
Total Number of Responses: 39		
*Field inspection / investigation number includes local agencies reported totals.		

G. Program Funding

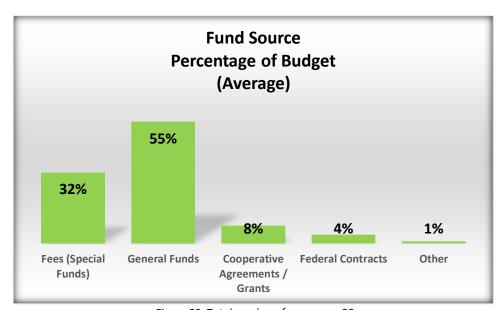


Figure 23. Total number of responses: 38

VI. GRADE A AND MANUFACTURING MILK

A. General Questions

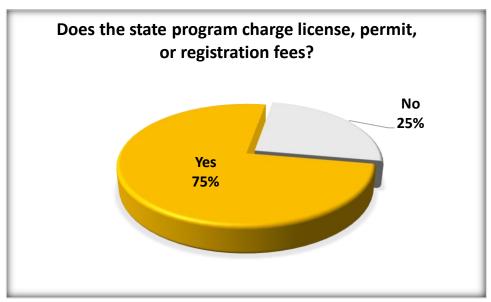


Figure 24. Total number of responses: 44

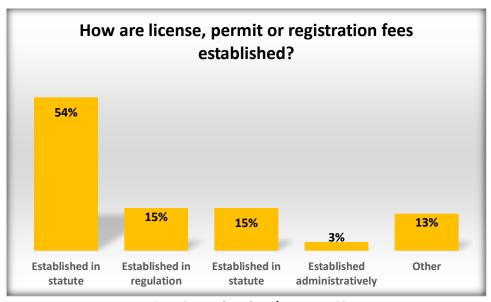


Figure 25. Total number of responses: 39

What factors are license, permit, or registration fees based on? (Selected all that applied)		
Risk	2%	
Facility type (or produces processed)	57%	
Facility square footage	0%	
Facility revenue	7%	
Number of employees	0%	
Volume of product processed	35%	
Other	26%	
Total Number of Responses: 42 (Responders may have selected more than one factor)		

B. State Inventories and Inspections

Establishment Type	Total Number Licensed or Permitted Facilities	Total Number of State Inspections in 2019
Milk Producers	31,207	69,665
Grade A Milk Plants (with <u>no</u> manufacturing grade dairy products)	459	3,723
Grade A Milk Plants (<u>with</u> manufacturing grade dairy products)	590	3,596
Receiving/Transfer Stations	190	390
Milk Distributor	1,438	1,313
Bulk Milk Hauler/Sampler	18,127	8,958
Industry Plant Samplers	4,417	2,744
Milk Tank Trucks	16,669	9,349
Freestanding Tanker Washing Facilities (i.e., not attached to a milk plant)	206	376
Single Service Container Facility	437	1,201
FDA Contract Inspections	327	586
Manufacturing Milk Only Firms	2,277	10,509
Other	57	112
TOTAL	76,401	112,522
Total Number of Responses: 44 (some could not provide answers for all categories)		

c. Complaints, Recalls, Tracebacks, and Traceforwards

Total non-foodborne illness related consumer complaints received & investigated in 2019:		
Total Number of Consumer Complaints Received (Grade-A)	111	
Total Number of Consumer Complaints Investigated (Grade-A)	106	
Total Number of Consumer Complaints Received (Manufacturing Milk)	35	
Total Number of Consumer Complaints Investigated (Manufacturing Milk)	34	
Total Number of Responses: 44		

Total recall and tracing activities that were conducted during calendar year 2019:		
Tracebacks / Traceforwards related to Grade-A & Manufacturing Milk	18	
Recalls overseen related to firms under the state's jurisdiction	152	
Recalls initiated as a result of investigative activities conducted by the state	28	
Number of recall effectiveness checks conducted	27	
Total Number of Responses: 43		

D. Foodborne Disease

If more than one agency in the state is responsible for foodborne illness surveillance, investigation, and response, do the agencies meet to discuss these issues on a regularly scheduled basis?		
Yes	57%	
No	43%	
Total Number of Responses: 40		
If yes, do MOU's, agreements, or procedures exist between the agencies conducting joint		
surveillance or investigations?		
Yes	79%	
No	21%	
Total Number of Responses: 24		

Total number of foodborne disease related activities in 2019:		
Alleged foodborne disease complaints (including ill food worker	1,689	
complaints) received	1,089	
Confirmed foodborne disease outbreak follow-up inspections or	75	
investigations the agency conducted	75	
Foodborne disease outbreak investigations the agency conducted	440	
(confirmed + unconfirmed)		
Foodborne disease outbreak follow-up inspections or investigations the	0.7	
agency conducted (for confirmed + unconfirmed outbreaks)	87	
Total Number of Responses: 38		

E. Enforcement Authorities and Actions

State Enforcement Authority	State programs reporting they have this enforcement authority	Total number of times enforcement authority was utilized in Grade-A Plants in CY 2019	Total number of times enforcement authority was utilized in Manufacturing Milk Plants in CY 2019
Warning Letters / Notice of Violation	100%	967	1,049
Permitted Firms De-listed	93%	177	1
Embargo/Quarantine/Impound	81%	8	30
Seizure	71%	7	25
Condemnation	81%	5	0
Mandatory Recall	72%	5	11
Mandatory Destruction	70%	27	31
Voluntary Destruction / Disposal	91%	20	7
Monetary Penalties (civil penalties)	67%	2	3
License / Permit Suspension	95%	56	14
License / Permit Revocation	95%	0	0
Hearings	88%	6	7
Criminal Complaints	42%	2	0
Civil Complaints	44%	2	6
Injunctions	35%	0	0
Inspection Warrants	37%	0	0
Search Warrants	26%	10	0

Total Number of Responses: 37-43 (Some responders could not track or break down activities; includes 481 additional non-categorized)

Enforcement Activity in 2019		
Total Number of Monetary Penalties Issued	88	
Total Amount of Monetary Penalties Issued	\$119,400	
Total Number of Embargoes and Quarantines	71	
Total Pounds of Milk & Manufacturing Milk Products Embargoed and	1,097,767	
Quarantined		
Total Value of Milk & Manufacturing Milk Products Embargoed and	\$39,805	
Quarantined		
Total Number of Condemnations or Destructions	38	
Total Pounds of Milk & Manufacturing Milk Products Condemned or	1,743,404	
Destroyed		
Total Value of Milk & Manufacturing Milk Products Condemned or	\$234,396	
Destroyed		
Total Number of Responses: 41 (some did not report all areas)		

F. Staffing

Program Staffing	Total Number of Full Time Equivalent Staff	
Milk Inspectors (Grade A & Manufacturing Milk)	382	
Inspectors Dedicated to Grade A Only	40	
Milk Sanitation Rating Officers (SRO)	108	
Compliance Officers	16	
Supervisor	65	
Emergency Response	31	
Manager	38	
Other Administrative Staff	64	
Laboratory Evaluation Officers (LEO)	77	
Total State Program FTE's (excluded other	821	
Total Number of Responses: 44		

G. Program Funding

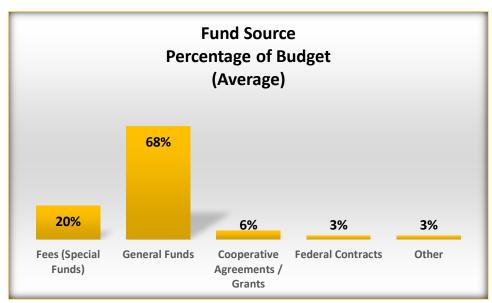


Figure 26. Total Number of Responses: 43

VII. SHELLFISH

A. General Questions

How are shellfish regulated by the state?	
One state program is responsible for licensing and inspecting all	63%
shellfish related operations (including growing areas)	
Responsibility for licensing and inspecting shellfish related operations	30%
is shared between two or more state agencies	
Other	7%
Total Number of Responses: 27	

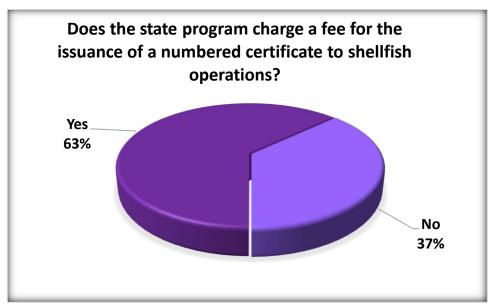


Figure 27. Total Number of Responses: 27



Figure 28. Total Number of Responses: 10

What factors are certificate fees based on? (Selected all that applied)		
Facility type (RS, SS, SP, DP, etc.)	70%	
Facility square footage	10%	
Facility revenue	0%	
Volume of shellstock handled or sold	0%	
Number of employees	0%	
Other	40%	
Total Number of Responses: 10 (Responders may have selected more than one factor)		

Does the state program offer food safety training to the shellfish industry?		
Yes	56%	
No	44%	
Total Number of Responses: 27		
If yes, what types of training does your state program offer?		
Sanitation (SSOPs)	75%	
Seafood HACCP	67%	
Recalls	8%	
Allergen Control	8%	
Labeling	25%	
Other	75%	
Total Number of Responses: 12 (Responders may have selected more than one training type)		

B. State Inventories and Inspections

Establishment Type	Total Number of Certificates Issued	Total Number of State Inspections in 2019
Depuration Processor (DP)	6	62
Repacker (RP)	21	70
Reshipper (RS)	493	894
Shellstock Shipper (SS)	1,023	2,818
Shucker-Packer (SP)	133	616
Post-Harvest Processor (PHP)	6	28
Aquaculture (AQ)	107	109
Wet Storage (WS)	131	183
Other	92	105
TOTAL	2,012	4,885
Total Number of Responses: 27		

C. Complaints, Recalls, Tracebacks, and Traceforwards

Total non-foodborne illness related consumer complaints received & investigated in 2019:		
Total number of complaints related to shellfish received	455	
Total number of complaints related to shellfish investigated	303	
Total Number of Responses: 27		

Total recall and tracing activities that were conducted during calendar year 2019:		
Tracebacks / Traceforwards related to shellfish	252	
Recalls overseen related to shellfish firms under the state's jurisdiction	11	
Shellfish recalls initiated as a result of investigative activities conducted by	4	
the state		
Number of shellfish related recall effectiveness checks conducted	174	
Total Number of Responses: 27		

D. Foodborne Disease

Total number of foodborne illness related activities attributed to shellfish in 2019:		
Alleged foodborne illness complaints	421	
Foodborne illness complaint <u>investigations</u> agency conducted (confirmed + unconfirmed)	269	
Total Number of Responses: 27		

E. Enforcement Authorities and Actions

State Enforcement Authority	State programs reporting they have this enforcement authority	Total number of times enforcement authority was utilized during CY 2019
Embargo/Quarantine/Impound	92%	13
Seizure	69%	53
Condemnation	81%	9
Stop Sale Order	81%	11
Voluntary Destruction / Disposal	100%	36
Regulatory / Warning Letters	100%	89
Health Advisories	77%	23
Monetary Penalties (civil penalties)	69%	3
License / Permit Suspension	89%	5
License / Permit Revocation	89%	1
Hearings	89%	2
Closures	89%	158
Criminal Complaints	46%	96
Civil Complaints	65%	0
Injunctions	58%	0
Inspection Warrants	46%	163
Search Warrants	46%	2
Other	8%	165
Total Number of Responses: 26		

Enforcement Activity in 2019	
Total Number of Monetary Penalties Issued	29
Total Amount of Monetary Penalties Issued	\$23,725
Total Number of Embargoes and Quarantines	20
Total Pounds of Shellfish Embargoed and Quarantined	12,631
Total Value of Shellfish Embargoed and Quarantined	\$78,162
Total Number of Condemnations or Destructions	33
Total Pounds of Shellfish Condemned or Destroyed	10,523
Total Value of Shellfish Condemned or Destroyed	\$17,271
Total Number of Responses: 26	

F. Staffing

Program Staffing	Total Number of Full Time Equivalent Staff	
Field Inspection / Investigation	80	
Supervisors (Over Field Activities)	24	
Compliance & Enforcement (Includes Recall Coordinators)	36	
Emergency Response	23	
Industry & Community Relations	11	
Quality Management (includes Program Standards and Auditing)	18	
Training Outreach	25	
Administrative Support	16	
Managers	24	
Other	46	
Total State Program FTE's	303	
Total Number of Responses: 26		

G. Program Funding

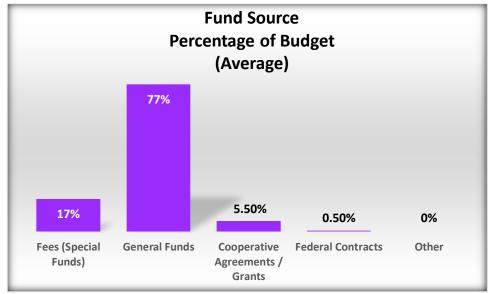


Figure 29. Total Number of Responses: 23

VIII. MEAT AND POULTRY

A. General Questions

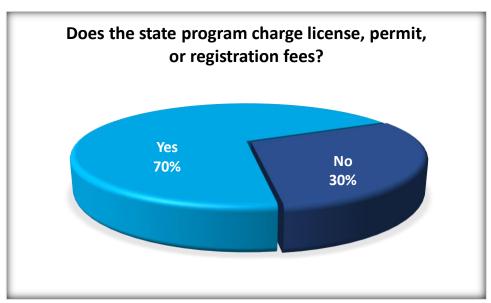


Figure 30. Total Number of Responses: 20

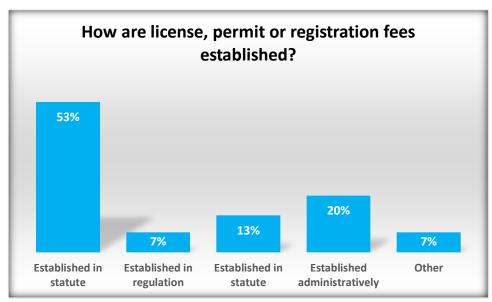


Figure 31. Total Number of Responses: 15

What factors are license, permit, or registration fees based on? (Selected all that applied)		
Risk	13%	
Facility type or products processed	80%	
Facility square footage	13%	
Facility revenue	7%	
Number of employees	0%	
Volume of product processed	13%	
Other	33%	
Total Number of Responses: 15(Responders may have selected more than one factor)		

B. State Inventories and Inspections

Establishment Type	Total Number of Firms Licensed	Total Number of State Inspections in 2019
Small Animal Slaughterhouses (Meat & Poultry)	739	126,183
Custom Exempt Meat	1,051	1,507
Custom Exempt Poultry	173	178
Retail Processing Establishments	2,414	1,253
Wild Game	174	120
Pet Food	706	82
Live Animal Markets	96	569
Rendering Plants	45	31
Other	55	27
TOTAL	5,453	129,950
Total Number of Responses: Varies by type, range is 19-20		

C. Complaints and Recalls

Total non-foodborne illness related consumer complaints received & investigated in 2019:	
Total number of complaints received	700
Total number of complaints investigated	650
Total Number of Responses: 20	

Total recall activities that were conducted during calendar year 2019:	
Recalls overseen related to firms under the state's jurisdiction	35
Recalls initiated as a result of investigative activities conducted by the state	7
Number of recall effectiveness checks conducted	61
Total Number of Responses: 20	

Enforcement Authorities and Actions

State Enforcement Authority	State programs reporting they have this enforcement authority	Total number of times enforcement authority was utilized during CY 2019
Embargo/Quarantine/Impound	88%	109
Seizure	78%	0
Condemnation	78%	9
Stop Sale Order	83%	56
Voluntary Destruction / Disposal	89%	1,307
Regulatory / Warning Letters	88%	474
Health Advisories	59%	3
Monetary Penalties (civil penalties)	94%	15
License / Permit Suspension	94%	0
License / Permit Revocation	94%	0
Hearings	100%	16
Closures	65%	15
Criminal Complaints	82%	27
Civil Complaints	94%	2
Injunctions	71%	0
Inspection Warrants	41%	3
Search Warrants	53%	1
Total Number of Responses: Varies by authority, range is 16-18		

Enforcement Activity in 2019	
Total Number of Monetary Penalties Issued	17
Total Amount of Monetary Penalties Issued	\$99,103
Total Number of Embargoes and Quarantines	298
Total Pounds of Meat/Poultry Embargoed and Quarantined	54,508
Total Value of Meat/Poultry Embargoed and Quarantined	\$115,831
Total Number of Condemnations or Destructions	1,331
Total Pounds of Meat/Poultry Condemned or Destroyed	373,692
Total Value of Meat/Poultry Condemned or Destroyed	\$1,001,065
Total Number of Responses: Varies by activity, range is 14-18	

D. Staffing

Program Staffing	Total Number of Full Time Equivalent Staff
Inspection	470
Supervisors (Over Field Activities)	63
Compliance & Enforcement (Includes Recall Coordinators)	40
Emergency Response	62
Administrative Support	41
Managers	30
Other	0
Total State Program FTE's	706
Total Number of Responses: 20	•

E. Program Funding

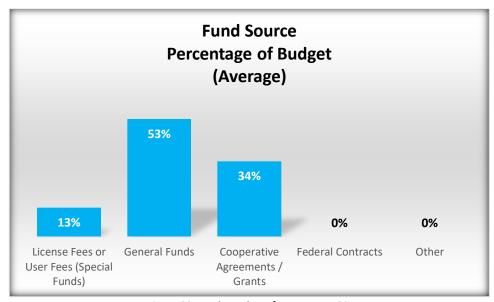


Figure 32.Total Number of Responses: 20

IX.PRODUCE

A. General Questions

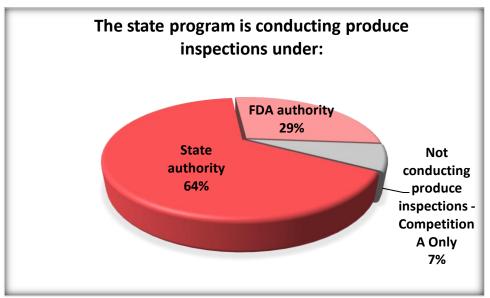


Figure 33. Total Number of Responses: 46

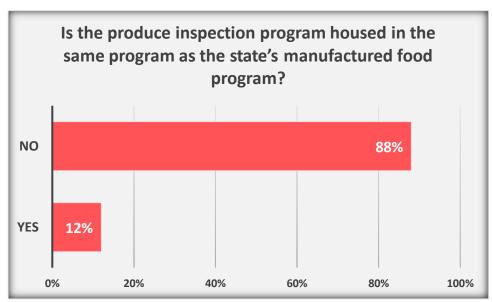


Figure 34. Total Number of Responses: 43

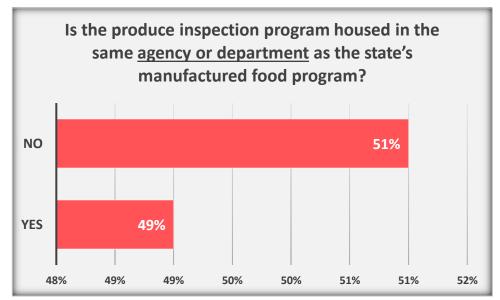


Figure 35. Total number of responses: 43

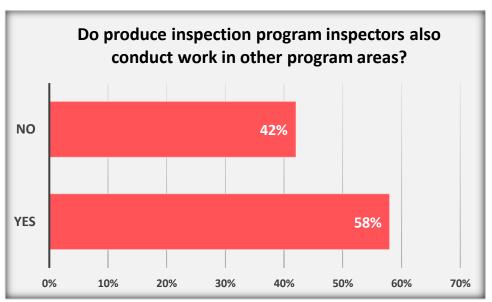


Figure 36. Total number of responses: 43

Does the program currently have the authority or is legislative authority being sought to register businesses under the state's jurisdiction?	
Yes, currently have the authority to register businesses	44%
Yes, seeking legislative authority to register businesses	5%
No	51%
Total Number of Responses: 43	

Has the state conducted On Farm Readiness Reviews (OFRR)?	
Yes	91%
No	9%
Total Number of Responses: 46	

If OFRRs are completed, who conducts them?	
State Program	24%
Contractor (cooperative extension, etc.)	12%
Both	64%
Total Number of Responses: 42	

Does the state program offer produce (food) safety training to the produce industry?		
Yes	91%	
No	9%	
Total Number of Responses: 46		
If yes, what types of training does your state program offer?		
Grower training course (produce rule)	100%	
Basic sanitation	17%	
Recalls	12%	
Other	26%	
Total Number of Responses: 42 (Responders may have selected more than one training type)		

State produce inspections completed in 2019:	
Total state inspections	1,121
Total Number of Responses: 46	

Sprout operations are being inspected by:	
State produce inspection program	22%
State manufactured food program	9%
FDA	54%
State manufactured food program/FDA	7%
State produce inspection program/FDA	2%
State Department of Health	4%
State manufactured food program/produce inspection program	2%
Total Number of Responses: 46	

Total complaints related to farm activities or growing operations received & investigated in	
2019:	
Total number of complaints received	8
Total number of complaints investigated	7
Total Number of Responses: 46	

B. Enforcement Authorities and Actions

State Enforcement Authority	State programs reporting they have this enforcement authority	Total number of times enforcement authority was utilized during CY 2019
Embargo/Quarantine	50%	1
Seizure	37%	0
Condemnation	41%	0
Stop Sale Order	57%	0
Voluntary Destruction / Disposal	67%	0
Regulatory / Warning Letters	67%	12
Monetary Penalties (civil penalties)	61%	0
Criminal Complaints	11%	0
Civil Complaints	26%	0
Injunctions	26%	0
Inspection Warrants	17%	0
Search Warrants	17%	0
Total Number of Responses: 46	<u>.</u>	•

Does the state produce program defer all egregious conditions to the FDA for enforcement		
or compliance actions?		
Yes	42%	
No 58%		
Total Number of Responses: 43		

C. Staffing

Program Staffing	Total Number of Full Time Equivalent Staff
Produce Field Inspection / Investigation	112
Direct Program Management (Over Field Activities)	56
Training / Outreach	50
Administrative Support	41
Other	19
Total State Program FTE's	280
Total Number of Responses: 46	

D. Program Funding

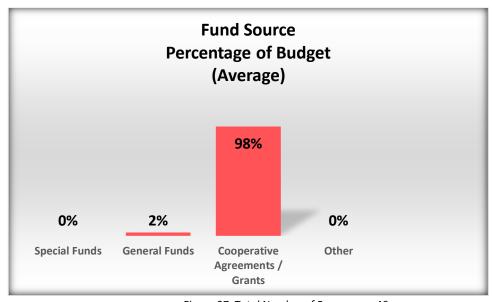


Figure 37. Total Number of Responses: 46

X. FOOD & FEED LABORATORIES

A. General Questions

What category of products does the laboratory perform testing on? (checked all that apply)			
Human Food	75%		
Animal Food	55%		
Produce	59%		
Environmental Samples (related to food or feed operations)	77%		
Milk/Dairy	63%		
Shellfish	25%		
Cannabis, Hemp, CBD	33%		
Total Number of Responses: 64 (Responders may have selected more than one product type)			

If the laboratory analyzes animal food, is the laboratory active in APHL and/or AAFCO?			
APHL Only	17%		
AAFCO Only	25%		
Both APHL and AAFCO	47%		
Not active in either association	8%		
Total Number of Responses: 35			

B. Sampling

Who collects samples that are analyzed by the laboratory? (Checked all that applied)			
Agency's regulatory program	78%		
Other regulatory program (other state or local program, FDA, etc.)	52%		
Laboratory staff	28%		
Industry	9%		
Other sources 23%			
Total Number of Responses: 63 (Responders may have selected more than one answer)			

C. Laboratory Accreditation

Laboratory is accredited to the following for its food / feed testing: 4.7		
ISO/IEC 17025	65%	
ALACC AOAC	15%	
AAFCO QA/AC Guidelines for Feed Laboratories	13%	
AIHA FoodLAP	5%	
Other	20%	
Not accredited or seeking accreditation	28%	
Total Number of Responses: 54 (Responders may have selected more than one answer)		

D. Laboratory Methods

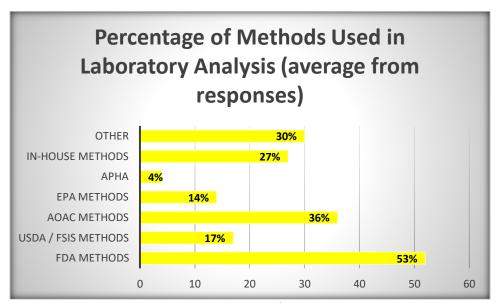


Figure 38. Total number of responses: 55

E. Laboratory Analyses - Total Analyses Reported for 2019

MICROBIOLOGY - HUMAN FOOD

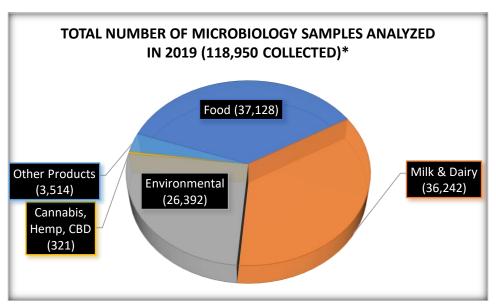


Figure 39. *Totals discrepancy due to some states not providing specific lab analysis breakdown by category or providing totals data only.

Laboratory Analyses	All Analyses (Total for Each Pathogen)*	Food Samples (includes produce & shellfish)	Milk & Dairy Samples	Environ. Samples	Cannabis, Hemp, CBD Samples	Other Products
Total Number of Microbiology Samples Analyzed in 2019*	171,577	57,362	48,824	38,565	198	3,909
Salmonella	37,001	20,305	1,635	12,439	79	1,316
Listeria monocytogenes	23,668	12,440	1,977	6,694	59	552
Pathogenic E. coli (STEC, EHEC, etc.)	14,845	11,376	813	1,664	59	724
Other Analyses	96,063	13,241	44,399	17,768	1	1,317

Total Number of Responses: 47

^{*}Totals discrepancy due to some states not providing specific lab analysis breakdown by category or providing totals data only.

CHEMISTRY – HUMAN FOOD

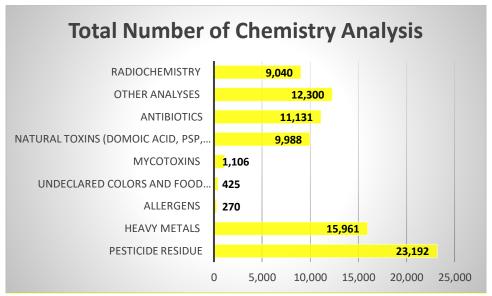


Figure 40. *Totals discrepancy due to some states not providing specific lab analysis breakdown by category or providing totals data only.

Laboratory Analyses	Total Number Chemistry Analyses *	Food Samples (includes produce & shellfish)	Milk & Dairy Samples	Environ. Samples	Cannabis, Hemp, CBD Samples	Other Products
Total Number of Chemistry Samples Analyzed in 2019*	83,413	27,603	26,118	8,109	3,792	3,699
Pesticide residue	23,192	10,940	9,738	98	215	2,084
Heavy metals	15,961	2,230	240	1,671	255	28
Allergens	270	193	0	<i>7</i> 5	0	2
Undeclared colors and food additives	425	398	0	6	0	21
Mycotoxins	1,106	977	99	0	0	0
Natural toxins (Domoic Acid, PSP, etc.)	9,988	9,887	0	0	0	1
Antibiotics	11,131	142	9,133	0	155	444
Other Analyses	12,300	1,935	6,700	0	2,943	122
Radiochemistry	9,040	801	208	6,259	224	997

Total Number of Responses: 64

^{*} Totals discrepancy due to some states not providing specific lab analysis breakdown by category or providing totals data only

MICROBIOLOGY - ANIMAL FOOD

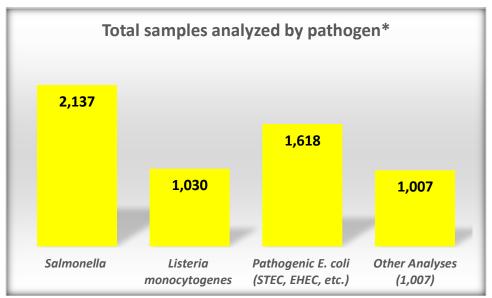


Figure 41. *Totals discrepancy due to some states not providing specific lab analysis breakdown

Laboratory Analyses	All Analyses (Total for Each Pathogen)*	Animal Food / Pet Food Samples	Cannabis, Hemp, CBD Samples	Other Samples
Total Number of Microbiology Samples Analyzed in 2019*	5,792	5,215	0	55
Salmonella	2,137	2,127	0	0
Listeria monocytogenes	1,030	988	0	30
Pathogenic E. coli (STEC, EHEC,	1,618	1,618	0	0
etc.)				
Other Analyses	1,007	482	0	25

Total Number of Responses: 64

^{*}Totals discrepancy due to some states not providing specific lab analysis breakdown by category or providing totals data only.

CHEMISTRY – ANIMAL FOOD

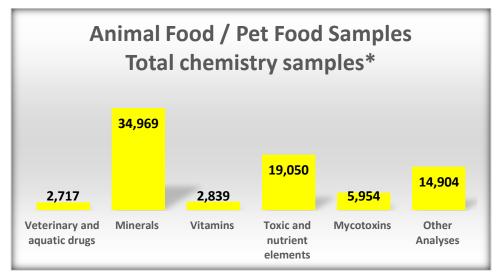


Figure 42. *Totals discrepancy due to some states not providing specific lab analysis breakdown by category or providing totals data only.

Laboratory Analyses	Animal Food / Pet Food Samples*	Other Samples
Total Number of Chemistry Samples Analyzed in 2019*	80,433	35,327
Veterinary and aquatic drugs	2,717	10
Minerals	34,969	34,194
Vitamins	<i>2,839</i>	0
Toxic and nutrient elements	19,050	780
Mycotoxins	5,954	343
Other Analyses	14,904	0
Mammalian Protein	99	N/A

Total Number of Responses: 64

*Totals discrepancy due to some states not providing specific lab analysis breakdown by category or providing totals data only.

Whole Genome Sequencing

Is laboratory a member of GenomeTrakr Network?	
Yes	35%
No	65%
Total Number of Responses: 62	

If not currently a member of GenomeTrakr Network are you planning to join?		
Yes	95%	
No	5%	
Total Number of Responses: 39		

Bacteria Whole Genome Sequencing (WGS)	Number of labs performing (n=26)	Percentage of programs that perform WGS/ % of those laboratories (specific organisms)	Total number of samples analyzed during CY 2019	
Bacteria (n=62)		41.9%		
Salmonella	26	100%	9,323	
Listeria monocytogenes	25	96%	1,115	
E. coli/Shigella	26	100%	2,710	
Campylobacter	19	73%	927	
Vibrio parahaemolyticus	15	58%	205	
Other bacteria	13	50%	277	
Parasites Whole Genome Sequencing (WGS)	Number of labs performing (n=1)	Percentage of programs that perform WGS/ % of those laboratories (specific organisms)	Total number of samples analyzed during CY 2019	
Parasites (n=62)		1.6 %		
Cyclospora (n=62)	1	100%	0	
Other parasites (n=62)	1	100%	0	
Viruses Whole Genome Sequencing (WGS)	Number of labs performing (n=5)	Percentage of programs that perform WGS/ % of those laboratories (specific organisms)	Total number of samples analyzed during CY 2019	
Viruses (n=62)	5	8.1%		
Hepatitis A	1	20%	0	
Norovirus	3	60%	17	
Other viruses	5	100%	0	
Total Number of Responses: Varies by type, range is 13-26				

F. Staffing

Laboratory Staffing	Total Full Time Equivalents		
Lab Analysts by Discipline (Microbiologists)	226		
Lab Analysts by Discipline (Chemistry)	25		
Lab Analysts by Discipline (Other)	36		
Total Laboratory Analysts (all disciplines combined)	520		
Supervisors	104		
Managers/Administrators/Director	81		
Laboratory Support (Sample Custodian, Sample Prep, Media Prep, Safety Officer, etc.)	109		
Administrative Support (Clerical)	43		
Quality Assurance Staff	63		
Research Staff	8		
Other	6		
Total Human and/or Animal Food Laboratory FTE's	935		
Total Number of Responses: 63			

G. Funding

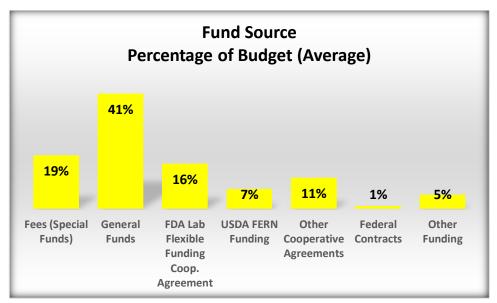


Figure **43**. Total number of responses: 60