REPORT NO. 100
OCTOBER 1970

CENTER FOR DISEASE CONTROL

SALMONELLA

SURVEILLANCE

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FOR THE MONTH OF JULY 1970

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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE/PUBLIC HEALTH SERVICE
Health Services and Mental Health Administration

PREFACE

Summarized in this report is information received from State and City Health Departments, university and hospital laboratories, the National Animal Disease Laboratory (USDA, ARS), Ames, Iowa, and other pertinent sources, domestic and foreign. Much of the information is preliminary. It is intended primarily for the use of those with responsibility for disease control activities. Anyone desiring to quote this report should contact the original investigator for confirmation and interpretation.

Contributions to the Surveillance Report are most welcome. Please address:

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I. SUMMARY

In July 1970, 2,516 isolations of salmonellae were reported from humans, an average of 503 isolations per week (Tables I, II, and V-A). This number represents an increase of 44 (9.6 percent) over the weekly average of June 1970 and an increase of 72 (16.7 percent) over the weekly average of July 1969.

Reports of 950 nonhuman isolations of salmonellae were received during July 1970 (Tables II, IV, and V-B).

II. REPORTS OF ISOLATIONS

The ten most frequently reported serotypes during July:

HUMAN					NONHUMAN		
	Serotype	Number	Percent	Rank Last Month	Serotype	Number	Percent
1	typhi-murium*	624	24.8	1	typhi-murium*	157	16.5
2	enteritidis	274	10.9	2	heidelberg	107	11.3
3	newport	212	8.4	5	anatum	66	6.9
4	heidelberg	182	7.2	3	schwarzengrund	52	5.5
5	infantis	126	5.0	4	infantis	51	5.4
6	saint-paul	120	4.8	6	saint-paul	40	4.2
7	thompson	103	4.1	7	montevideo	37	3.9
8	blockley	57	2.3	8	worthington	32	3.4
9	derby	55	2.2	9	san-diego	30	3.2
10	montevideo	49	1.9	>10	indiana	24	2.5
	Total	1802	71.6		Total	596	62.7
	TOTAL (all serotypes)	2516			TOTAL (all serotypes)	950	
	*Includes var. copenhagen	34	1.4		*Includes var. copenhagen	31	3.3

III. CURRENT INVESTIGATIONS

None.

IV. REPORTS FROM THE STATES

Reports of Salmonella Outbreaks received during the months of June and July

State	Month Of Outbreak	Location	Serotype	Number of Persons: Ill	At Risk	With Positive Cultures	Hospitalized	Deaths	Vehicle	Comment
June										
South Carolina	June 1970	Picnic	S. enteritidis	336	700	7	2	0	Potato salad	*
Maryland		Bact. Lab.	S. typhi	2	7	2	2	0	lab cultures	**
Hawaii	June 1970	Hospital	S. infantis	46	?	?		0	chicken & chicken soup	***
Hawaii	May 1970	Delicattessen	S. weltevreden	10	?	?	?	0	corned beef or chicken?	***
Hawaii	May 1970	Restaurant	S. typhi-murium	27	34	5/10	?	0	potato salad	***
July										
Tennessee	July 1970	Restaurant	S. thompson	>300	4000	123	60	0	Barbequed pork	***
Nebraska	June 1970	Private party	S. minnesota	~130	200	5	4	0	Probably multiple foods	
Tennessee	June 1970	Private party	S. infantis	5	8	3	1	0	Lemon tart - raw eggs?	

* Potato salad probably contaminated by raw chickens
** Reported in MMWR
*** Improper food handling

V. SPECIAL REPORTS

Announcement of a Course on Methods for the Isolation of Salmonellae from Food Products and Animal Feeds

The Epidemiology Program and the Laboratory Division of the Center for Disease Control will conduct a course on methods for isolating salmonellae from food products and animal feeds on January 4-15, 1971. The prerequisite for the course is 6 months' experience in either a bacteriology or quality control laboratory. The course is divided equally between lectures and laboratory exercises. Lectures include epidemiology, sampling, and principles of isolation and identification. Laboratory exercises include all necessary steps in the isolation and the preliminary biochemical and serologic identification of salmonellae from various foods and feeds, such as eggs, dry milk, candy, red meats, poultry, animal by-products, and fish meal.

State, Federal, and industry personnel may obtain application forms from the following:

Training Office
Laboratory Consultation and Development Section
Laboratory Division
Center for Disease Control
Atlanta, Georgia 30333

There is no charge for the course, but enrollment is limited to 20 students.

The closing date to register for the course is November 9, 1970.

VI. INTERNATIONAL

None.

TABLE I. COMMON SALMONELLAE REPORTED FROM HUMAN SOURCES, JULY, 1970

SEROTYPE	GEOGRAPHIC DIVISION AND REPORTING CENTER																															
	NEW ENGLAND						MIDDLE ATLANTIC					EAST NORTH CENTRAL					WEST NORTH CENTRAL							SOUTH ATLANTIC								
	ME	NH	VT	MAS	RI	CON	NYA	NYB	NYC	NJ	PA	OHI	IND	ILL	MIC	WIS	MIN	IOW	MO	ND	SD	NEB	KAN	DEL	MD	DC	VA	WVA	NC	SC	GA	FLA
anatum									1			1		2		1			2										1		1	
bareilly																																1
blockley	1		2	1		1		1	2		4	1		4		1	3		3						5						11	1
braenderup									1					1																		
bredeney								1	1	2				1	1										1				1		1	3
chester						1			1																1							
cholerae-suis v kun														1																	2	
cubana				1										2																		2
derby								1		1		1		6	1	2	1						3		1						1	2
enteritidis				21	1	4		17	11	15	19	16	18	11	20	16	10	1	1	1				2	9	2	2		7	7	10	9
give											1			1		1																
heidelberg				6		2		7	6	9	5	2	3	17	6	6	4		5				1	1	4		1		2		15	5
indiana								2	1					1											1						1	
infantis	6			2	2	2		2	5	1	4	2	4	5	14	5	1						3		2	1	4		4		3	6
java		1				3		1		1	5			3									1						4		2	6
javiana																1				1									1		7	7
litchfield				1		1			1		1																				3	2
livingstone												1			3																	
manhattan				1		1		1	4		5	1		8	5	1	1								3				1			2
miami											1																1					2
mississippi																													1		3	
montevideo	1			3			1	1	2	3	5	4		1	1		1								4	2	1				4	4
muenchen				1		1		2		1				3	1	2							1								3	3
newington																1																
newport				6		1		4	4	8	7	7	4	9	9	5	3	1		1	1		8		3		2		2	1	10	20
oranienburg				1	1	4		4	2	2		3					1						1						1		1	4
panama				4		1	3	2	1		3			1															1			
paratyphi B				1						1		2			4												2			1		
reading				1										2		1													1			
saint-paul				1	1	4		8	2	3	16	6	3	7	5	9	2			2			1		3				7		3	12
san-diego											1					1															1	
schwarzengrund									1						1																	
senftenberg								1																	1							
tennessee											1																1					
thompson				4		1			3	1	1	6		2	9	3	3						2		4			6	4		9	
typhi	1					1	4	1	2	2	3	2		1	1				1				1						4		3	4
typhimurium	6		2	28	4	19		15	13	19	29	20	20	36	11	23	20	2	7	4	5	1	11	5	28	3	10		22		36	20
typhimurium v cop				2		9				4					11			1					3									
weltevreden																																
worthington														1																		
TOTAL	15	1	4	85	9	56	8	71	64	73	111	75	52	126	103	79	50	5	19	9	6	1	36	8	70	8	24	6	64	9	130	115
ALL OTHER*	—	11	—	3	—	2	45	5	16	1	4	1	3	5	5	1	1	1	1	—	—	1	—	1	4	14	2	—	6	2	4	9
TOTAL	**15**	**12**	**4**	**88**	**9**	**58**	**53**	**76**	**80**	**74**	**115**	**76**	**55**	**131**	**108**	**80**	**51**	**6**	**20**	**9**	**6**	**2**	**36**	**9**	**74**	**22**	**26**	**6**	**70**	**11**	**134**	**124**

Note: NYA – New York, Albany; NYB – Beth Israel Hospital; NYC – New York City.
Beth Israel Hospital laboratory is a reference laboratory and this month serotyped a total of 124 cultures.

* See Table II.

TABLE I – Continued

GEOGRAPHIC DIVISION AND REPORTING CENTER																					TOTAL	% OF TOTAL	CUMULATIVE TOTAL	% OF CUMULATIVE TOTAL	SEROTYPE
EAST S. CENTRAL				WEST S. CENTRAL				MOUNTAIN								PACIFIC									
KY	TEN	ALA	MIS	ARK	LA	OKL	TEX	MON	IDA	WYO	COL	NM	ARI	UTA	NEV	WAS	ORE	CAL	ALK	HAW					
	2																	2		2	15	0.6	102	0.9	*anatum*
	1						1										1				4	0.2	30	0.3	*bareilly*
1	3	1					3				3							4		1	57	2.3	359	3.0	*blockley*
	1				3		1														7	0.3	36	0.3	*braenderup*
						1	1				1							1		2	18	0.7	101	0.9	*bredeney*
	1																	1			5	0.2	43	0.4	*chester*
																					3	0.1	13	0.1	*cholerae-suis v kun*
																					5	0.2	81	0.7	*cubana*
					2		2									1		8	1	21	55	2.2	265	2.2	*derby*
3	1	8			1		10	1	2		1			1		3	5	7		1	274	10.9	1,013	8.6	*enteritidis*
	1						4											1			9	0.4	35	0.3	*give*
2	3	5			3		6	2			2		16			1	1	30		4	182	7.2	938	8.0	*heidelberg*
																		1			7	0.3	55	0.5	*indiana*
	3	2		2	3		3				1		2				3	14		15	126	5.0	655	5.6	*infantis*
	2	1					1	1									3	3		1	39	1.6	203	1.7	*java*
				1	6		15											7			46	1.8	124	1.1	*javiana*
		1			1													7			18	0.7	108	0.9	*litchfield*
							1														5	0.2	14	0.1	*livingstone*
	1	1																2			38	1.5	194	1.6	*manhattan*
		1																			5	0.2	22	0.2	*miami*
	4				4		1											1			14	0.6	30	0.3	*mississippi*
		1			2		1		1		1							5			49	1.9	196	1.7	*montevideo*
	1	2			3	1	1											5			31	1.2	112	1.0	*muenchen*
																					1	0.0	17	0.1	*newington*
	5	1	1	4	8	4	30	1			1		3			1		34		3	212	8.4	790	6.7	*newport*
	2	3		1	1								11					4	1		48	1.9	202	1.7	*oranienburg*
	1						2				3		1							3	26	1.0	97	0.8	*panama*
		1		1			2											4			19	0.8	106	0.9	*paratyphi B*
																1	4				10	0.4	84	0.7	*reading*
1	1	1			1		5				1		1	1		1	2	8		2	120	4.8	513	4.4	*saint-paul*
					1												1	3		1	9	0.4	167	1.4	*san-diego*
											2			1				1			6	0.2	33	0.3	*schwarzengrund*
				1														1			4	0.2	35	0.3	*senftenberg*
																				1	3	0.1	27	0.2	*tennessee*
1	35				1	1	3									1		3			103	4.1	479	4.1	*thompson*
				6	1		1						1			1	1	2	1		45	1.8	247	2.1	*typhi*
4	11	16	1	3	3	3	25	1	4		9		2	1		8	10	62		8	590	23.4	2,848	24.2	*typhimurium*
	2												1				1				34	1.4	152	1.3	*typhimurium v cop*
							1													3	4	0.2	50	0.4	*weltevreden*
																		1			2	0.1	34	0.3	*worthington*
12	81	45	2	19	44	10	120	6	7	–	25	–	38	4	–	18	32	222	3	68	2,248	89.3	10,610	90.0	TOTAL
1	1	4	20	5	3	–	26	–	–	–	–	41	–	–	–	–	2	11	1	5	268		1,176		ALL OTHER*
13	**82**	**49**	**22**	**24**	**47**	**10**	**146**	**6**	**7**	**–**	**25**	**41**	**38**	**4**	**–**	**18**	**34**	**233**	**4**	**73**	**2,516**		**11,786**		**TOTAL**

TABLE II. OTHER SALMONELLAE REPORTED FROM HUMAN SOURCES, JULY, 1970

SEROTYPE	REPORTING CENTER																						
	ALA	ALK	ARK	CAL	CON	DEL	DC	FLA	GA	HAW	ILL	IND	IOW	KY	LA	MD	MAS	MIC	MIN	MIS	MO	NEB	NH
adelaide											1												
alachua					1																		
amager									1														
atlanta									3														
berta				1						1													
california																		1					
cerro				1				1		1													
degania								1															
drypool																		1					
dublin				1																			
duesseldorf																			1				
eastbourne																							
gallinarum																							
gaminara	1																						
inverness								1															
kaapstad																							
kentucky	1																						
kottbus																2							
london																							
madelia																							
meleagridis				2														1					
minnesota				1																			
muenster	1																						
norwich			1											1	1								
nottingham																							
oslo										2	1												
paratyphi A										1													
pensacola								1															
pomona					1																		
poona				1		1										1							
praha																							
pullorum																							
rubislaw															1								
saphra															1								
siegburg				1				4			2							2					
simsbury																							
stanley				2							1										1		
thomasville																							
urbana												2				1	1						
TOTAL	3	—	1	10	2	1	—	8	4	5	5	2	—	1	3	4	1	5	1	—	1	—	—
NOT TYPED*	1	1	4	1	—	—	14	1	—	—	—	1	1	—	—	—	2	—	—	20	—	1	11
TOTAL	**4**	**1**	**5**	**11**	**2**	**1**	**14**	**9**	**4**	**5**	**5**	**3**	**1**	**1**	**3**	**4**	**3**	**5**	**1**	**20**	**1**	**1**	**11**

* See Table V-A

TABLE II – Continued

REPORTING CENTER														TOTAL	CUMULATIVE TOTAL	SEROTYPE
NJ	NM	NYA	NYB	NYC	NC	OHI	ORE	PA	SC	TEN	TEX	VA	WIS			
														1	1	*adelaide*
														1	5	*alachua*
														1	5	*amager*
														3	8	*atlanta*
														2	36	*berta*
														1	5	*california*
														3	9	*cerro*
														1	1	*degania*
														1	6	*drypool*
														1	4	*dublin*
														1	9	*duesseldorf*
											1			1	2	*eastbourne*
			1											1	2	*gallinarum*
											1			2	7	*gaminara*
														1	3	*inverness*
								1						1	2	*kaapstad*
					1						2			4	23	*kentucky*
			1											3	7	*kottbus*
					1			1			1			3	8	*london*
											1			1	1	*madelia*
											1			4	8	*meleagridis*
								1						2	21	*minnesota*
														1	10	*muenster*
														3	4	*norwich*
				1										1	1	*nottingham*
														3	15	*oslo*
														1	4	*paratyphi A*
					1									2	4	*pensacola*
														1	2	*pomona*
			1								4			8	45	*poona*
			1	1										2	2	*praha*
						1								1	2	*pullorum*
														1	3	*rubislaw*
														1	2	*saphra*
								1			1			11	21	*siegburg*
			1											1	7	*simsbury*
														4	8	*stanley*
					1									1	4	*thomasville*
1				1	1							2		9	29	*urbana*
1	–	–	5	3	5	1	–	4	–	–	12	2	–	90	467	TOTAL
–	41	45	–	13	1	–	2	–	2	1	14	–	1	178	709	NOT TYPED*
1	**41**	**45**	**5**	**16**	**6**	**1**	**2**	**4**	**2**	**1**	**26**	**2**	**1**	**268**	**1176**	**TOTAL**

Cumulative Totals include isolations of all serotypes (except those listed in Table I) reported this year.

TABLE III. COMMON SALMONELLAE REPORTED FROM NONHUMAN SOURCES, JULY, 1970

SEROTYPE	DOMESTIC ANIMALS AND THEIR ENVIRONMENT							ANIMAL FEEDS			
	CHICKENS	TURKEYS	SWINE	CATTLE	HORSES	OTHER	SUBTOTAL	TANKAGE	VEGETABLE PROTEIN	OTHER	SUBTOTAL
anatum	10	14	1	1		7	33	21		7	28
bareilly	3					1	4				—
blockley	17	3	1			1	22				—
braenderup	1	1					2				—
bredeney	1	1		1			3	4			4
chester	1	1					2				—
cholerae-suis v kun			11				11				—
cubana	1		1				2	2			2
derby		3	2			1	6	2			2
enteritidis	10			3		3	16				—
give	1	3					4				—
heidelberg	13	76	3	5		2	99	1		1	2
indiana		1					1				—
infantis	18	3	1	5		1	28	7		1	8
java							—				—
javiana						1	1				—
litchfield					3		3				—
livingstone							—			1	1
manhattan	7	3					10				—
miami							—				—
mississippi							—				—
montevideo	20	2					22	3		2	5
muenchen	2	6	1			1	10				—
newington		3	2		1	1	7			1	1
newport	1	2		4			7				—
oranienburg	2	1				2	5			1	1
panama							—				—
paratyphi B							—				—
reading		1					1				—
saint-paul	6	27	1	1		1	36				—
san-diego		30					30				—
schwarzengrund		3	1				4	8			8
senftenberg	1	8				2	11	1			1
tennessee	8	2					10	6		1	7
thompson	12					2	14				—
typhi							—				—
typhimurium	18	11	5	30	14	27	105			1	1
typhimurium v cop	15	1	1	4	2	8	31				—
weltevreden							—				—
worthington	25		2			1	28				—
TOTAL	193	206	33	54	20	62	568	55	—	16	71
ALL OTHER*	18	9	5	9	2	6	49	31	—	16	47
TOTAL	**211**	**215**	**38**	**63**	**22**	**68**	**617**	**86**	**—**	**32**	**118**

* See Table IV

TABLE III – Continued

WILD ANIMALS AND BIRDS	REPTILES AND ENVIRON-MENT	HUMAN DIETARY ITEMS						MISCEL-LA-NEOUS	TOTAL	CUMU-LATIVE TOTAL	SEROTYPE
		EGGS AND PRODUCTS	POULTRY	RED MEAT	DAIRY PRODUCTS	OTHER	SUBTOTAL				
1						4	4		66	333	*anatum*
							–		4	30	*bareilly*
		1					1		23	103	*blockley*
	1	1					1		4	18	*braenderup*
				1			1	3	11	94	*bredeney*
							–		2	28	*chester*
							–		11	200	*cholerae-suis v kun*
							–	3	7	71	*cubana*
1							–		9	77	*derby*
1		5				1	6		23	87	*enteritidis*
							–		4	21	*give*
2	1			1			1	2	107	504	*heidelberg*
		23					23		24	45	*indiana*
14		1					1		51	232	*infantis*
	1						–		1	23	*java*
	4			3		2	5	1	11	15	*javiana*
	2						–		5	9	*litchfield*
							–		1	38	*livingstone*
							–		10	24	*manhattan*
							–		–	8	*miami*
	1						–		1	2	*mississippi*
			6			2	8	2	37	194	*montevideo*
1		4					4		15	37	*muenchen*
							–		8	21	*newington*
1	5	1	3				4	1	18	122	*newport*
1		2		1		2	5		12	108	*oranienburg*
							–	2	2	4	*panama*
							–		–	2	*paratyphi B*
							–		1	28	*reading*
2	2						–		40	334	*saint-paul*
							–		30	128	*san-diego*
			2			38	40		52	95	*schwarzengrund*
		3			1	2	6		18	166	*senftenberg*
		1		1			2	1	20	145	*tennessee*
	1	2		1			3	4	22	202	*thompson*
							–		–	–	*typhi*
3	2	9			1	1	11	4	126	678	*typhimurium*
							–		31	135	*typhimurium v cop*
							–		–	–	*weltevreden*
3							–	1	32	158	*worthington*
30	20	53	11	8	2	52	126	24	839	4519	TOTAL
4	5	–	–	–	–	5	5	1	111	1074	ALL OTHER*
34	**25**	**53**	**11**	**8**	**2**	**57**	**131**	**25**	**950**	**5593**	**TOTAL**

TABLE IV. OTHER SALMONELLAE REPORTED FROM NONHUMAN SOURCES, JULY, 1970

SEROTYPE	DOMESTIC ANIMALS AND THEIR ENVIRONMENT							ANIMAL FEEDS			
	CHICKENS	TURKEYS	SWINE	CATTLE	HORSES	OTHER	SUBTOTAL	TANKAGE	VEGETABLE PROTEIN	OTHER	SUBTOTAL
albany	1						1				–
amager		1					1				–
berta	2						2				–
binza		2					2	3			3
california	1						1				–
carrau			1	1			2				–
cerro							–	2			2
cholerae-suis			2				2				–
drypool	1	1					2	2		5	7
dublin				7		1	8				–
eimsbuettel	1	1				1	3	16			16
essen							–	1			1
good						3	3			2	2
grumpensis							–	1			1
habana	1						1				–
halmstad							–				–
hartford					1		1				–
johannesburg							–			5	5
kentucky							–	2		2	4
lomita							–				–
london		1					1				–
minneapolis							–				–
minnesota							–	2			2
pensacola					1		1				–
poona			1				1				–
pullorum	2						2				–
siegburg							–	1			1
simsbury	2						2				–
taksony		1					1	1			1
thomasville			1				1			2	2
urbana							–				–
zanzibar	4						4				–
TOTAL	15	7	5	8	2	5	42	31	–	16	47
NOT TYPED*	3	2	–	1	–	1	7	–	–	–	–
TOTAL	**18**	**9**	**5**	**9**	**2**	**6**	**49**	**31**	**–**	**16**	**47**

*See Table V-B

TABLE IV – Continued

WILD ANIMALS AND BIRDS	REPTILES AND ENVIRON-MENT	HUMAN DIETARY ITEMS						MISCEL-LA-NEOUS	TOTAL	CUMU-LATIVE TOTAL	SEROTYPE
		EGGS AND PRODUCTS	POULTRY	RED MEAT	DAIRY PRODUCTS	OTHER	SUBTOTAL				
							–		1	11	*albany*
							–		1	1	*amager*
							–		2	13	*berta*
2							–		7	24	*binza*
							–	1	2	27	*california*
1						1	1		4	10	*carrau*
							–		2	28	*cerro*
							–		2	10	*cholerae-suis*
							–		9	43	*drypool*
							–		8	51	*dublin*
							–		19	164	*eimsbuettel*
							–		1	1	*essen*
							–		5	6	*good*
							–		1	1	*grumpensis*
							–		1	2	*habana*
						1	1		1	1	*halmstad*
							–		1	7	*hartford*
							–		5	14	*johannesburg*
							–		4	63	*kentucky*
						1	1		1	2	*lomita*
							–		1	1	*london*
1							–		1	3	*minneapolis*
							–		2	84	*minnesota*
							–		1	1	*pensacola*
	3						–		4	12	*poona*
							–		2	41	*pullorum*
							–		1	44	*siegburg*
							–		2	32	*simsbury*
							–		2	22	*taksony*
							–		3	43	*thomasville*
	2						–		2	21	*urbana*
							–		4	4	*zanzibar*
4	5	–	–	–	–	3	3	1	102	963	TOTAL
–	–	–	–	–	–	2	2	–	9	111	NOT TYPED*
4	5	–	–	–	–	5	5	1	111	1074	TOTAL

TABLE V. SALMONELLAE REPORTED BY GROUP IDENTIFICATION ONLY, JULY, 1970

A. HUMAN SOURCES

REPORTING CENTER	GROUP															TOTAL
	B	C		C1	C2		D	E		G	H		UNK			
ALABAMA							1									1
ALASKA					1											1
ARKANSAS				2	2											4
CALIFORNIA	1															1
DISTRICT OF COLUMBIA	5	1			2		2						4			14
FLORIDA													1			1
INDIANA													1			1
IOWA	1															1
MASSACHUSETTS	2															2
MISSISSIPPI	9			1	3		1			5			1			20
NEBRASKA	1															1
NEW HAMPSHIRE	6			1			4									11
NEW MEXICO	22			7	8		3				1					41
NEW YORK – A													45			45
NEW YORK – C	2												11			13
NORTH CAROLINA	1															1
OREGON	1												1			2
SOUTH CAROLINA	1			1												2
TENNESSEE													1			1
TEXAS	4			2	5		2						1			14
WISCONSIN													1			1
TOTAL	**56**	**1**		**14**	**21**		**13**	**–**		**5**	**1**		**67**			**178**

B. NONHUMAN SOURCES

SOURCES	GROUP															TOTAL
	B	C		C1	C2		D	E		G	H		UNK			
DOMESTIC ANIMALS AND THEIR ENVIRONMENT	1			1				1					4			7
ANIMAL FEEDS																–
WILD ANIMALS AND BIRDS																–
REPTILES AND ENVIRONMENT																–
HUMAN DIETARY ITEMS													2			2
MISCELLANEOUS																–
TOTAL	**1**	**–**		**1**	**–**		**–**	**1**		**–**	**–**		**6**			**9**

STATE EPIDEMIOLOGISTS

Key to all disease surveillance activities are those in each State who serve the function as State epidemiologists. Responsible for the collection, interpretation and transmission of data and epidemiological information from their individual States, the State epidemiologists perform a mast vital role. Their major contributions to the evolution of this report are gratefully acknowledged.

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