

TABLE 5
SALMONELLA ISOLATIONS FROM HUMAN SOURCES
BY SEROTYPE AND GEOGRAPHIC REGIONS, 1998

SERO TYPE	REGION										TOTAL
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
AARHUS	.	1	.	2	3	1	.	.	.	2	9
ABAE TETUBA	1	2	.	.	1	.	1	.	.	2	7
ABERDEEN	.	1	.	.	.	1	.	1	1	1	4
ABONY	1	.	.	.	2	.	.	2	1	1	6
ADELAIDE	3	21	10	1	10	2	4	1	20	72	
AFRICANA	.	.	.	.	2	.	.	.	.	2
AGAMA	.	1	.	.	1	.	.	.	.	2
AGO	.	1	.	.	.	.	.	.	.	1
AGONA	41	173	317	136	57	22	64	17	164	991	
AGUEVE	.	.	2	.	.	1	.	.	3	6	
AJI OBO	.	.	1	.	1	.	.	.	.	2
ALABAMA	.	.	.	.	1	1	.	.	.	2
ALACHUA	1	3	1	2	2	1	1	.	3	14	
ALAMO	.	.	.	.	.	1	.	.	.	1
ALBANY	.	2	8	1	1	1	.	.	10	23	
ALLANDALE	.	.	.	.	.	1	.	.	.	1
AMAGER	.	1	2	3	
AMSTERDAM	.	1	1	.	.	.	1	.	2	5	
ANATUM	4	18	19	8	19	5	22	10	33	138	
ANECHO	.	.	.	1	1	2	

(Continued)

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SEROTYPE	REGION										TOTAL
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
ANTSALOVA	.	1	1	2
ARAGUA	1	1
ARECHAVALETA	1	.	.	1	.	.	1	.	.	1	4
ARKANSAS	2	.	.	.	2
ATHINAI	1	.	.	.	1
BAILDON	.	.	3	.	8	46	.	1	15	73	
BANANA	1	.	.	.	.	.	.	.	.	1
BANCO	.	2	.	.	.	.	.	.	.	2
BARDO	.	2	1	3	.	.	.	.	3	9
BAREILLY	4	5	32	13	33	19	35	2	10	153	
BENFICA	1	.	.	.	.	1	
BERE	.	1	.	.	.	.	.	.	.	1
BERKELEY	.	.	1	.	.	.	.	.	.	1
BERTA	6	24	19	2	47	1	2	1	21	123	
BINZA	.	1	.	.	.	.	.	.	.	1
BIRKENHEAD	2	2	4	
BLEGDAM	.	1	.	1	.	.	.	1	.	3	
BLOCKLEY	.	9	11	5	4	.	11	14	7	61	
BOCHUM	5	5	
BONARIENSIS	.	4	1	.	1	6	

(Continued)

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SEROTYPE	REGION										TOTAL
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
BONN	.	.	1	.	.	.	.	.	.	.	1
BOVISMORBIFICANS	2	14	18	6	4	3	2	3	12		64
BRADFORD	.	.	.	1	.	.	.	.	.	.	1
BRAENDERUP	59	58	57	53	83	32	60	16	79		497
BRANCASTER	.	1	.	.	.	.	.	.	.	.	1
BRANDENBURG	10	25	19	14	36	7	3	2	16		132
BRENENEY	.	5	6	5	3	75	8	1	9		112
BRONX	.	2	.	.	.	.	.	.	.	.	2
BROOKLYN	.	.	.	.	.	.	.	1	.		1
BUZU	.	1	.	.	3	.	.	.	.		4
CALABAR	.	.	1	.	.	.	.	.	.		1
CALIFORNIA	.	.	.	.	.	.	.	3	.		3
CAMBERWELL	1	.	.	.	.	.	.	.	.		1
CANNSTATT	.	.	1	.	.	.	.	.	.		1
CARRAU	.	.	.	.	3	.	.	.	.		3
CERRO	4	4	2	3	6	1	5	12	15		52
CHAILEY	.	1	3	.	1	.	.	.	4		9
CHAMELEON	.	1	3	2	1	.	.	.	1		8
CHESTER	1	4	5	1	5	.	4	2	2		24
CHICAGO	1		1

(Continued)

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SEROTYPE	REGION										TOTAL
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
CHINCOL	.	.	.	.	1	.	.	.	.	.	1
CHOLERAESUIS	2	4	5	2	5	.	.	.	.	5	23
CHOLERAESUIS VAR KUN	2	2	1	4	.	1	1	1	1	1	13
CLAIBORNEI	.	.	.	.	.	.	.	.	.	1	1
COELN	.	.	1	.	.	.	.	.	4	.	5
COLINDALE	1	1	1	.	1	.	.	.	.	.	4
COLORADO	.	.	.	.	2	.	.	.	.	.	2
CONCORD	.	.	.	.	2	.	.	.	.	.	2
CORVALLIS	1	.	.	.	.	.	.	.	.	.	1
CUBANA	1	4	7	1	20	3	4	7	25	7	72
DAYTONA	.	.	.	.	.	2	.	.	1	.	3
DECATUR	.	.	1	.	1	.	.	.	.	.	2
DENVER	.	.	.	.	1	.	.	.	.	.	1
DERBY	7	12	24	12	32	12	4	25	43	25	171
DIGUEL	.	1	.	.	.	.	.	.	.	.	1
DJUGU	.	1	.	.	.	.	.	.	.	.	1
DOULASSAME	1	1
DRYPOOL	.	.	.	1	.	.	.	3	.	.	4
DUBLIN	.	4	2	2	2	.	.	23	45	23	78
DUESSELDORF	2	3	.	4	1	.	4	1	.	1	15

(Continued)

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SALMONELLA ISOLATIONS FROM HUMAN SOURCES
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SEROTYPE	REGION										TOTAL
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
DURBAN	.	1	1	1	2	.	.	.	5	10	
DUVAL	.	.	.	.	1	.	.	.	.	1
EALING	.	2	2	.	2	.	.	.	.	6
EASTBOURNE	.	2	1	.	2	3	.	.	.	8	
EDINBURG	.	1	.	.	.	.	.	.	.	1
EMEK	4	.	1	1	.	.	.	.	1	7
ENTERITIDIS	460	1670	1051	213	688	93	157	557	1140	6029	
ESSEN	.	2	.	.	.	.	.	.	.	2
FARMSEN	2	.	1	.	1	.	.	.	.	4
FISCHERKIETZ	.	.	.	.	1	.	.	.	.	1
FLINT	.	.	2	.	52	.	.	1	.	55	
FLORIDA	.	3	.	.	5	.	.	.	.	8
FLUNTERN	.	.	.	.	3	.	.	.	.	3
FYRIS	.	.	.	.	1	.	.	.	.	1
GABON	.	.	.	1	.	.	.	.	.	1
GALLINARUM	1	.	.	1	
GAMABA	1	.	.	.	1	
GAMINARA	1	2	4	.	14	4	30	1	5	61	
GATOW	2	2	
GATUNI	1	1	

(Continued)

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SEROTYPE	REGION										TOTAL
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
GEORGIA	.	.	.	.	2	.	.	.	.	.	2
GIVE	5	10	11	5	9	6	31	1	14		92
GLOSTRUP	5	.	.	1	2	.	1	.	1		10
GOETTINGEN	.	.	1	.	.	.	.	.	.	.	1
GOLDCOAST	1	.	.	.	.	.	.	.	.	.	1
GROUP 51	.	1	1	.	.	.	.	.	.	.	2
GROUP 53	.	.	.	2	.	.	.	.	.	.	2
GROUP 57	.	.	.	1	.	.	.	.	.	.	1
GROUP 58	.	.	1	.	.	.	.	1	.	.	2
GROUP 60	.	1	.	.	1	.	.	.	.	.	2
GROUP 61	.	.	2	.	1	.	.	1	1		5
GROUP A	.	.	.	.	.	.	.	2	.	.	2
GROUP B	15	75	82	106	68	42	47	68	29		532
GROUP C1	2	13	10	3	12	11	22	10	2		85
GROUP C2	5	8	3	2	20	1	2	9	1		51
GROUP D1	3	5	6	7	38	12	9	33	.		113
GROUP D2	.	1	1
GROUP D3	.	2	2
GROUP E1	.	2	.	1	5	.	4	1	1		14
GROUP E2	2	.	.		2

(Continued)

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SEROTYPE	REGION											TOTAL		
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific					
GROUP E4	2	.	.	1	.	.	.	.	.	.	.	.	.	3
GROUP F	1	.	.	.	1	3	1	.	.	.	.	.	.	6
GROUP G	.	.	.	1	2	5	7	1	1	.	.	.	.	17
GROUP H	.	1	1	.	.	.	.	.	.	.	.	.	.	2
GROUP I	1	3	1	1	3	.	.	.	.	.	.	.	35	44
GROUP K	.	.	1	1	1	1	.	.	.	.	.	.	.	4
GROUP L	1	.	.	.	.	.	.	.	.	1
GROUP N	.	.	1	.	.	.	.	.	.	.	.	.	.	1
GROUP O	.	1	.	.	.	.	.	.	.	.	.	.	.	1
GROUP P	1	.	.	.	.	.	.	.	.	1
GROUP Q	1	.	.	.	.	.	.	.	.	1
GROUP R	1	2	.	.	.	.	.	.	.	3
GROUP S	1	.	.	.	.	.	1
GROUP V	.	1	4	.	3	.	.	.	.	.	.	.	1	9
GROUP W	2	3
GROUP X	.	.	1	.	1	2
GROUP Y	1	3	4
GROUP Z	.	4	1	1	6
GRUMPENSIS	1	1
HAARDT	2	2

(Continued)

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SEROTYPE	REGION										TOTAL
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
HADAR	33	152	67	45	84	12	24	36	91	544	
HAIFA	.	.	.	1	1	.	.	.	1	3	
HARLEYSTREET	.	.	.	1	.	.	.	.	.	1
HARTFORD	28	21	46	9	40	10	8	6	7	175	
HAVANA	6	4	6	1	21	.	2	10	27	77	
HAYINDOGO	1	.	.	.	.	.	.	.	.	1
HEIDELBERG	139	475	293	156	281	81	79	77	319	1900	
HEILBRON	.	.	.	.	.	.	.	.	1	1
HIDUDDIFY	.	.	.	.	3	.	.	.	.	3
HINDMARSH	.	.	.	.	.	1	.	2	.	3
HOMOSASSA	.	.	.	.	2	.	.	.	.	2
HOUTEN	.	.	3	.	2	.	.	.	1	6	
HVITTINGFOSS	2	2	3	1	5	.	7	1	7	28	
I 4,5,12:I:-	.	24	.	.	10	.	.	.	.	34
IBADAN	6	.	1	.	17	1	14	.	.	39	
IDIKAN	.	.	1	.	.	.	.	.	.	1
II 50:B:Z6	.	.	.	1	1	.	.	1	.	3	
IIIB 61:1,V:1,5,7	1	1	
INDIANA	2	.	1	.	4	7	
INFANTIS	31	64	93	26	72	10	141	33	130	600	

(Continued)

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	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
INVERNESS	.	2	.	1	18	1	6	.	4	32	
IRUMU	1	2	1	.	3	.	.	2	6	15	
ISANGI	.	2	2	.	.	.	.	.	1	5
ISTANBUL	.	2	.	.	.	.	.	.	5	7
ITAMI	.	.	.	.	.	8	.	.	.	8
ITURI	.	.	.	.	3	.	1	.	1	5
IV 44:Z4,Z23:-	2	2	1	.	1	.	.	.	.	6
IV 45:G,Z51:-	.	.	.	.	.	1	.	1	.	2
JAMAICA	.	.	.	.	1	.	.	.	.	1
JANGWANI	.	1	1	.	1	.	.	.	2	5	
JAVA	6	34	104	28	44	14	4	6	8	248	
JAVIANA	25	58	68	37	522	68	279	70	40	1167	
JODHPUR	.	.	.	.	1	.	.	.	.	1
JOHANNESBURG	.	3	5	2	10	7	1	.	4	32	
KAMBOLE	.	.	1	.	.	.	.	.	.	1
KEDUGOU	.	1	1	
KENTUCKY	5	24	7	3	1	.	4	2	12	58	
KIAMBU	.	.	2	1	4	.	3	.	3	13	
KILWA	1	1	
KINGSTON	.	1	1	

(Continued)

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	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
KINONDONI	.	.	1	.	.	.	.	.	.	.	1
KINSHASA	1	.	.	1
KINTAMBO	.	.	1	4	4	3	2	3	3	.	20
KISARAWA	.	1	.	.	1	.	.	.	.	.	2
KOKOLI	1	.	.	.	.	.	1
KOKOMLEMLE	1	.	.	.	.	.	1
KOTTBUS	1	.	.	1	.	.	2
KRALENDYK	1	1	4	2	.	.	.	4	2	.	14
KUA	.	1	.	.	.	.	.	.	.	.	1
KUNDUCHI	1	.	.	.	.	1
LABADI	1	.	1
LAMBERHURST	.	1	.	.	.	.	.	.	.	.	1
LAMIN	1	.	.	.	.	.	1
LANDWASSER	.	1	.	.	.	.	.	.	.	.	1
LANGENSALZA	1	.	.	.	1
LANKA	.	.	.	1	.	.	.	.	.	.	1
LAROCHELLE	1	5	.	.	.	6
LIMETE	.	1	1
LINDENBURG	1	.	.	1	2	1	5	.	.	.	10
LITCHFIELD	7	26	17	10	19	8	11	6	15	.	119

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SEROTYPE	REGION										TOTAL
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
LIVINGSTONE	1	1	1	.	.	.	.	1	1	5
LOCKLEAZE	.	.	.	.	1	.	.	.	.	1
LOMALINDA	.	1	.	4	3	.	.	3	5	16	
LOMITA	.	.	.	.	.	.	.	3	.	3
LONDON	4	3	6	.	3	.	4	1	7	28	
LOVELACE	.	.	.	.	1	.	.	.	.	1
LUCIANA	.	.	1	.	.	1	.	.	.	3	
MADELIA	.	.	1	.	6	.	4	.	1	12	
MAGWA	.	.	1	.	.	.	.	.	.	1
MANHATTAN	1	14	26	6	10	1	5	2	8	73	
MARINA	2	6	12	5	9	4	2	.	7	47	
MARYLAND	.	.	.	.	.	.	1	.	.	1
MATADI	.	.	2	.	.	.	.	.	2	4
MATOPENI	.	1	.	.	1	.	.	.	.	2
MBANDAKA	9	27	19	17	17	9	17	9	23	147	
MELEAGRIDIS	1	2	4	2	2	.	4	5	19	39	
MENDOZA	1	.	2	.	.	3	
MIAMI	19	12	7	3	49	3	1	1	4	99	
MICHIGAN	2	2	
MINNESOTA	1	.	.	1	1	1	4	1	8	17	

(Continued)

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SEROTYPE	REGION										TOTAL
	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
MISSISSIPPI	5	12	1	2	136	54	101	.	3	314	
MOLADE	.	.	.	.	.	.	.	.	1	1
MONO	.	.	.	1	.	.	1	.	.	2	
MONSCHAUI	.	.	1	.	.	.	.	.	2	3
MONTEVIDEO	43	89	115	55	111	37	116	83	179	828	
MOSCOW	.	4	.	.	.	.	.	.	.	4
MOUNTPLEASANT	.	.	.	.	1	.	.	.	.	1
MUENCHEN	61	48	57	47	189	46	80	43	68	639	
MUENSTER	8	20	10	9	6	1	5	2	7	68	
NCHANGA	.	.	1	.	.	.	.	.	.	1
NEWRUNSWICK	3	1	.	.	1	.	6	4	21	36	
NEWHAW	.	1	.	.	.	.	.	.	.	1
NEWINGTON	.	.	2	.	1	.	8	11	3	25	
NEWPORT	75	135	156	165	768	143	564	102	164	2272	
NEWROCHELLE	.	.	.	.	1	.	.	.	.	1
NIMA	.	.	.	1	1	.	.	.	3	5	
NORWICH	.	5	5	11	7	24	11	3	1	67	
NOTTINGHAM	2	2	
OHIO	7	19	10	4	11	2	1	10	15	79	
OLDENBURG	.	.	1	1	

(Continued)

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	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
ORANIENBURG	34	66	153	47	61	14	106	79	133	693	
ORIENTALIS	.	.	.	.	.	.	.	.	1	1
ORION	.	.	.	.	.	.	.	.	1	1
OSLO	.	1	2	2	7	1	2	1	15	31	
OTHMARSCHEN	.	.	.	.	4	.	.	3	.	7
ODWIJK	.	1	.	.	.	.	.	.	.	1
OVERSCHIE	.	3	.	.	.	.	.	.	.	3
PANAMA	11	17	11	5	8	8	10	19	30	119	
PARATYPHI A	8	22	15	4	5	.	6	2	23	85	
PARATYPHI B	18	9	23	9	13	.	27	26	64	189	
PARERA	.	1	.	.	.	.	.	.	3	4
PENSACOLA	.	.	.	.	3	1	.	.	1	5
PHOENIX	.	.	.	.	.	.	4	.	.	4
POMONA	.	5	.	.	3	.	1	1	9	19	
POONA	21	46	52	45	42	8	44	37	51	346	
PORTSMOUTH	2	2	
POTSDAM	.	.	.	1	2	1	1	.	1	6	
PUTTEN	3	1	1	1	1	.	.	.	2	9	
QUEBEC	.	1	1	
QUINIELA	1	.	.	1	

(Continued)

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	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
RAUS	.	.	2	.	.	.	1	.	.	3	
READING	7	12	19	12	6	3	3	5	14	81	
REMO	1	.	.	.	.	.	.	.	.	1
RICHMOND	.	3	.	.	.	.	1	.	.	4
RISSEN	1	.	.	.	2	.	1	.	2	6	
ROMANBY	.	1	.	.	.	.	.	.	.	1
RODEPOORT	.	.	.	2	.	.	.	.	.	2
ROTERBERG	.	.	1	.	.	.	.	.	.	1
RUBISLAW	.	7	4	.	45	6	23	.	3	88	
SAARBRUECKEN	.	1	.	.	.	.	.	.	.	1
SABOYA	.	1	.	.	.	.	.	.	.	1
SAINTPAUL	57	76	55	26	77	17	25	37	109	479	
SAKARAHA	1	.	.	.	.	.	.	.	.	1
SANDIEGO	10	3	7	1	9	1	6	5	13	55	
SAPHRA	.	.	.	.	1	.	14	.	1	16
SARA-JANE	.	.	.	1	.	.	.	.	.	1
SCHLEISSHEIM	.	1	.	.	2	5	.	.	.	8	
SCHWARZENGRUND	10	19	22	4	40	8	3	5	12	123	
SCULCOATES	1	.	.	.	1	
SENDAI	.	.	1	.	1	2	

(Continued)

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	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
SENFTEMBERG	10	38	12	6	4	2	7	9	54	142	
SERREKUNDA	.	1	.	.	.	.	.	.	.	1
SHUBRA	1	.	1	.	1	.	1	.	.	4	
SINGAPORE	.	3	1	.	2	.	3	.	3	12	
SINSTORF	.	1	.	.	.	.	.	.	.	1
SKANSEN	.	1	.	.	.	.	.	.	.	1
SOFIA	.	.	.	.	.	.	.	.	1	1
SOMONE	.	1	.	.	.	.	.	.	.	1
STANLEY	14	28	32	16	24	3	12	13	51	193	
STANLEYVILLE	.	13	1	.	2	.	.	.	.	16
STELLINGEN	.	.	.	1	.	.	.	.	.	1
SUBERU	.	.	.	.	1	.	.	.	.	1
SUBSPECIES I	3	22	2	3	36	1	1	1	3	72	
SUBSPECIES II	.	1	2	1	.	1	.	.	.	5	
SUBSPECIES III	.	.	.	.	.	.	.	1	.	1
SUBSPECIES IIIA	.	1	1	6	4	.	.	.	.	12
SUBSPECIES IIIA/IIIB	.	.	.	3	5	.	1	3	.	12	
SUBSPECIES IIIB	.	.	1	1	.	1	1	1	2	7	
SUBSPECIES IV	1	2	2	3	7	1	1	.	.	17	
SUNDSVALL	1	2	.	1	1	.	.	.	2	7	

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	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
TAKORADI	2	.	.	.	2	.	.	.	.	4
TALLAHASSEE	1	.	.	.	3	1	.	3	.	8	
TAMBACOUNDA	.	.	.	1	.	.	.	.	.	1
TEKO	.	.	.	.	1	.	.	.	.	1
TELAVIV	.	.	.	.	1	.	.	.	.	1
TELELKEBIR	2	2	2	3	4	2	.	.	11	26	
TENNESSEE	1	3	6	2	31	1	1	7	11	63	
THOMASVILLE	.	1	.	.	.	.	1	.	.	2
THOMPSON	36	85	88	53	81	15	58	39	116	571	
TIENBA	.	.	.	.	1	.	.	.	.	1
TUINDORP	.	.	.	.	.	.	.	.	1	1
TYPHI	25	101	43	10	38	9	24	10	122	382	
TYPHIMURIUM	607	1331	1227	704	1629	416	562	542	1082	8100	
TYPHIMURIUM VAR COPE	148	175	49	26	7	19	.	34	260	718	
UCCLE	.	.	.	.	.	1	.	2	1	4
UGANDA	2	5	9	2	7	1	6	1	11	44	
UNKNOWN	16	57	52	24	70	46	131	9	110	515	
UPPSALA	1	1	
URBANA	5	15	12	1	5	1	2	3	2	46	
UZARAMIO	.	2	1	3	

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	New England	Mid Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific		
VEJLE	.	.	.	.	.	.	.	1	.	.	1
VICTORIA	.	.	.	.	.	.	.	1	.	.	1
VIRCHOW	5	12	10	3	6	3	7	1	17		64
WANGATA	1	.	.	.	.	.	.	.	.	.	1
WASSENAAR	1	1	3	.	.	.	.	.	1		6
WAYCROSS	.	1	.	.	1	.	.	.	.	.	2
WELIKADE	.	.	.	1	.	.	.	.	.	.	1
WELTEVREDEN	4	6	7	3	4	.	1	5	37		67
WERNIGERODE	.	.	.	.	3	.	.	.	.	.	3
WESLACO	.	.	.	.	.	.	1	1	.	.	2
WESTHAMPTON	.	1	.	.	.	1	.	.	1		3
WORTHINGTON	3	6	2	2	1	1	2	3	18		38
YORUBA	.	1	.	.	.	.	.	.	.	.	1
ZANZIBAR	.	1	.	.	.	.	.	.	.	.	1
TOTAL	2273	5758	4876	2335	6199	1581	3192	2295	5462		33971